

10/537.719

```
>> file caplus
FILE 'CAPLUS' ENTERED AT 14:53:07 ON 04 JAN 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)
```

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The Ca Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 4 Jan 2010 VOL 152 ISS 2
FILE LAST UPDATED: 3 Jan 2010 (20100103/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

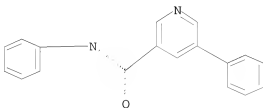
Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```

L3      208 SEA FILE=REGISTRY SSS FUL L1
L4      37 SEA FILE=CAPLUS L3

```

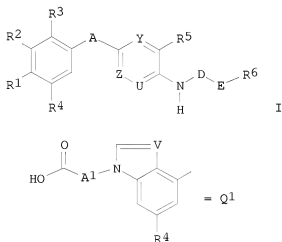
```
=> d 14 1-37 ibib abs hitstr
```

L4 ANSWER 1 OF 3	CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:	2009:944279 CAPLUS
DOCUMENT NUMBER:	151:220846
TITLE:	Preparation of (phenoxy)phenylalkanoic acid derivatives as CRTH2 antagonists for treatment of inflammatory diseases
INVENTOR(S):	Terasaka, Tadashi; Matsuda, Hiroshi; Ito, Shinji; Tasaki, Mamoru

PATENT ASSIGNEE(S): Astellas Pharma Inc., Japan
 SOURCE: PCT Int. Appl., 117pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009096526	A1	20090806	WO 2009-JP51587	20090130
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			JP 2008-22136	A 20080131
OTHER SOURCE(S):			MARPAT 151:220846	

GI



AB The title compds. I [R1 = (alkylene)-CO₂H, H; when R1 is (alkylene)-CO₂H, R2 is halo, H, and R3 is halo, alkyl, H, etc.; when R1 is H, R2 and R3 together with the benzene ring (to which R2 and R3 are connected) form Q1; A1 = (CH₂)_m; V = CH, N; m = integer from 1 to 6; R4 = halo, H; when R3 is H, R4 is halo; R5 = H, halo, alkyl; R6 = (un)substituted aryl, heteroaryl, heterocycloalkyl, etc.; A = O, S; D = CO, SO₂; E = bond, alkylene, alkenylene; Y = CR_{5a}, N; R_{5a} = H, halo, alkyl; Z = CH, N; U = CR_{5b}, N; R_{5b} = H, halo, alkyl; (a proviso specifying that 7 specific compds. are excluded is given)] are prepared. Thus, (3-chloro-4-(4-[(3,4-dichlorobenzoyl)amino]phenoxy)phenyl)acetic acid (II)

was prepared in a 2-step process starting from
 (4-(4-aminophenoxy)-3-chlorophenyl)acetic acid Et ester and
 3,4-dichlorobenzoic acid. II showed IC50 value of 9.1 nM in a CRTH2
 binding assay.

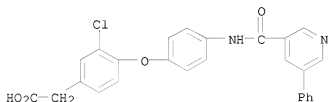
IT 1175651-33-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of (phenoxy)phenylalkanoic acid derivs. as CRTH2 antagonists
 for treatment of inflammatory diseases)

RN 1175651-33-8 CAPLUS

CN Benzeneacetic acid, 3-chloro-4-[4-[(5-phenyl-3-
 pyridinyl)carbonyl]amino]phenoxy]- (CA INDEX NAME)



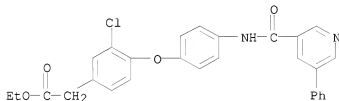
IT 1175654-73-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of (phenoxy)phenylalkanoic acid derivs. as CRTH2 antagonists
 for treatment of inflammatory diseases)

RN 1175654-73-5 CAPLUS

CN Benzeneacetic acid, 3-chloro-4-[4-[(5-phenyl-3-
 pyridinyl)carbonyl]amino]phenoxy]-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:695123 CAPLUS

DOCUMENT NUMBER: 151:211345

TITLE: Identification of 2-aminobenzimidazoles as potent
 melanin-concentrating hormone 1-receptor (MCH1R)
 antagonists

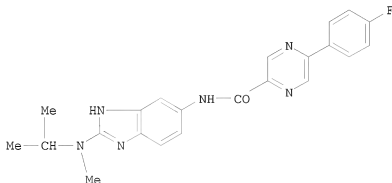
AUTHOR(S): Moriya, Minoru; Kishino, Hiroyuki; Sakuraba, Shunji;
 Sakamoto, Toshihiro; Suga, Takuya; Takahashi,
 Hidekazu; Suzuki, Takao; Ito, Masahiko; Ito, Junko;
 Moriya, Ryuichi; Takenaga, Norihiro; Iwaasa, Hisashi;
 Ishihara, Akane; Kanatani, Akio; Fukami, Takehiro

CORPORATE SOURCE: Tsukuba Research Institute, Banyu Pharmaceutical Co.,
 Ltd, Okubo-3, Tsukuba, Ibaraki, 300-2611, Japan

SOURCE: Bioorganic & Medicinal Chemistry Letters (2009),

19(13), 3568-3572
 CODEN: BMCLE8; ISSN: 0960-894X
 Elsevier B.V.
 Journal
 English

PUBLISHER:
 DOCUMENT TYPE:
 LANGUAGE:
 GI



I

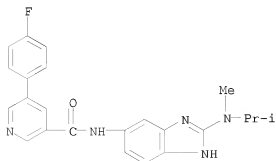
AB A series of 2-aminobenzimidazole-based MCH1R antagonists was identified by core replacement of the aminoquinoline lead 1. Subsequent modification of the 2- and 5-positions led to improvement in potency and intrinsic clearance. Compound 25 (I) exhibited good plasma and brain exposure, and attenuated MCH induced food intake at 30 mg/kg PO in rats.

IT 1174936-18-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(aminobenzimidazoles as melanin-concentrating hormone 1-receptor antagonists)

RN 1174936-18-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[2-[methyl(1-methylethyl)amino]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:594820 CAPLUS

DOCUMENT NUMBER: 151:23967

TITLE: Identifying Novel Molecular Structures for Advanced
Melanoma by Ligand-Based Virtual Screening
Wang, Zhao; Lu, Yan; Seibel, William; Miller, Duane
D.; Li, Wei

CORPORATE SOURCE: Department of Pharmaceutical Sciences, College of
Pharmacy, University of Tennessee Health Science
Center, Memphis, TN, 38163, USA

SOURCE: Journal of Chemical Information and Modeling (2009),
49(6), 1420-1427
CODEN: JCISD8; ISSN: 1549-9596

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We recently discovered a new class of thiazole analogs that are highly
potent against melanoma cells. To expand the structure-activity
relationship study and to explore potential new mol. scaffolds, we
performed extensive ligand-based virtual screening against a compound
library containing 342 910 small mols. Two different approaches of virtual
screening were carried out using the structure of our lead mol.: (1)
connectivity-based search using Scitegic Pipeline Pilot from Accelerlys and
(2) mol. shape similarity search using Schrodinger software. Using a
testing compound library, both approaches can rank similar compds. very high
and rank dissimilar compds. very low, thus validating our screening
methods. Structures identified from these searches were analyzed, and
selected compds. were tested in vitro to assess their activity against
melanoma cancer cell lines. Several mols. showed good anticancer
activity. While none of the identified compds. showed better activity
than our lead compound, they provided important insight into structural
modifications for our lead compound and also provided novel platforms on
which we can optimize new classes of anticancer compds. One of the newly
synthesized analogs based on this virtual screening has improved potency
and selectivity against melanoma.

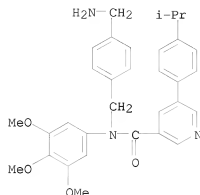
IT 1160108-27-9

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(identifying mol. structures for advanced melanoma by ligand-based
virtual screening)

RN 1160108-27-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-(aminomethyl)phenyl]methyl]-5-[4-(1-
methylethyl)phenyl]-N-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

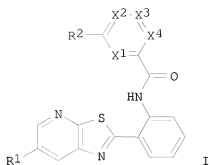


REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

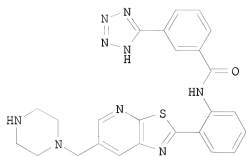
L4 ANSWER 4 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:1536622 CAPLUS
 DOCUMENT NUMBER: 150:77670
 TITLE: Preparation of 2-phenylthiazolo[5,4-b]pyridine derivatives as sirtuin modulators
 INVENTOR(S): Bemis, Jean; Disch, Jeremy S.; Ng, Pui Yee; Oalman, Christopher; Perni, Robert B.; Vu, Chi B.
 PATENT ASSIGNEE(S): Sirtris Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 118pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008156869	A2	20081224	WO 2008-US7776	20080620
WO 2008156869	A3	20090514		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
US 20090105246	A1	20090423	US 2008-214805	20080620
PRIORITY APPLN. INFO.:			US 2007-936636P	P 20070620
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):		MARPAT 150:77670		

GI



I



II

AB Title compds. represented by the formula I [wherein two of X1-X4 are selected from -CR- and -N-; the other two of X1-X4 are -CR-; R = independently H, halo or alkyl; R1 = a solubilizing group; R2 = (un)substituted Ph or heterocyclyl; or their salts thereof] were prepared as sirtuin modulators, especially SIRT1 modulators. For example, II was provided in a multi-step synthesis starting from the reaction of 5-amino-6-chloro-3-picoline with 2-nitrobenzoyl chloride. I were tested for inhibition of sirtuin activity. I may be used for increasing the lifespan of a cell, and treating and/or preventing a wide variety of diseases and disorders including, for example, diseases or disorders related to aging or stress, diabetes, obesity, neurodegenerative diseases, cardiovascular disease, blood clotting disorders, inflammation, cancer, and/or flushing as well as diseases or disorders that would benefit from increased mitochondrial activity. Also provided are compns. comprising a sirtuin-modulating compound in combination with another therapeutic agent.

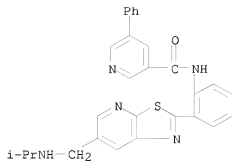
IT 1093623-32-5P 1093623-39-2P 1093623-55-2P
1093623-56-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-phenylthiazolo[5,4-b]pyridine derivs. as sirtuin modulators)

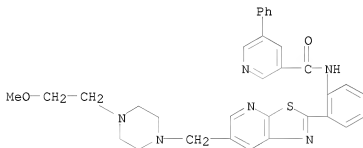
RN 1093623-32-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[2-[6-[(1-methylethyl)amino]methyl]thiazolo[5,4-b]pyridin-2-yl]phenyl]-5-phenyl- (CA INDEX NAME)



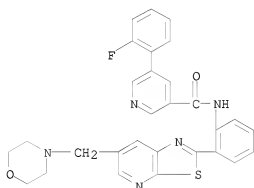
RN 1093623-39-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[2-[6-[[4-(2-methoxyethyl)-1-piperazinylmethyl]thiazolo[5,4-b]pyridin-2-yl]phenyl]-5-phenyl- (CA INDEX NAME)



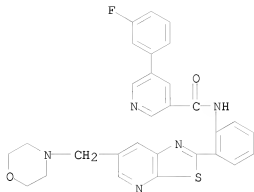
RN 1093623-55-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-fluorophenyl)-N-[2-[6-(4-morpholinylmethyl)thiazolo[5,4-b]pyridin-2-yl]phenyl]- (CA INDEX NAME)



RN 1093623-56-3 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-fluorophenyl)-N-[2-[6-(4-morpholinylmethyl)thiazolo[5,4-b]pyridin-2-yl]phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1448267 CAPLUS

DOCUMENT NUMBER: 150:5608

TITLE: Preparation of quinoline derivatives as PI3 kinase inhibitors

INVENTOR(S): Adams, Nicholas D.; Burgess, Joelle Lorraine; Darcy, Michael Gerard; Donatelli, Carla A.; Knight, Steven David; Newlander, Kenneth Allen; Ridgers, Lance; Sarpong, Martha; Schmidt, Stanley J.

PATENT ASSIGNEE(S): SmithKline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 163pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

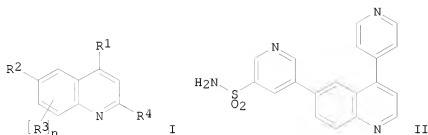
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008144463	A1	20081127	WO 2008-US63819	20080516
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2008254915	A1	20081127	AU 2008-254915	20080516
US 20080300239	A1	20081204	US 2008-121891	20080516
PRIORITY APPLN. INFO.:			US 2007-938761P	P 20070518
			WO 2008-US63819	W 20080516

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 150:5608; MARPAT 150:5608

GI



AB The title compds. I [R¹ = (un)substituted heterocycloalkyl, (hetero)aryl; R² = (un)substituted pyridinyl; R³, R⁴ = H, halo, acyl, etc.; n = 1-2], useful for inhibiting the activity/function of PI3 kinases, were prepared and formulated. That is, a multi-step synthesis of II, starting from 6-bromo-4-chloroquinoline, was given. Exemplified compds. I were tested and found active against PI3K α (IC₅₀'s ranged from about 1 nM to 10 μ M). Also invented is a method of treating one or more disease states selected from: autoimmune disorders, inflammatory diseases, cardiovascular diseases, neurodegenerative diseases, allergy, asthma, pancreatitis, multiorgan failure, kidney diseases, platelet aggregation, cancer, sperm motility, transplantation rejection, graft rejection and lung injuries by the administration of quinoline I.

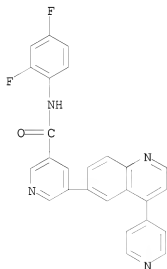
IT 1086060-63-0P 1086060-70-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

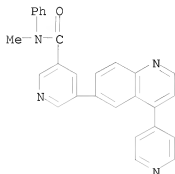
(preparation of quinoline derivs. as PI3 kinase inhibitors useful in treatment of diseases)

RN 1086060-63-0 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,4-difluorophenyl)-5-[4-(4-pyridinyl)-6-quinolinyl]- (CA INDEX NAME)



RN 1086060-70-9 CAPLUS

CN 3-Pyridinecarboxamide, N-methyl-N-phenyl-5-[4-(4-pyridinyl)-6-quinolinyl]-
(CA INDEX NAME)REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1448266 CAPLUS

DOCUMENT NUMBER: 150:5607

TITLE: Preparation of quinoline derivatives as PI3 kinase
inhibitorsINVENTOR(S): Adams, Nicholas D.; Chaudhari, Amita M.; Donatelli,
Carla A.; Knight, Steven David; Newlander, Kenneth
Allen; Parrish, Cynthia A.; Ridgers, Lance; Sarpong,
Martha A.

PATENT ASSIGNEE(S): SmithKline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 165pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

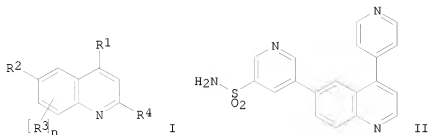
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008144464	A1	20081127	WO 2008-US63821	20080516
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20080300239	A1	20081204	US 2008-121891	20080516
PRIORITY APPLN. INFO.:			US 2007-938761P	P 20070518
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):		MARPAT 150:5607		

GI

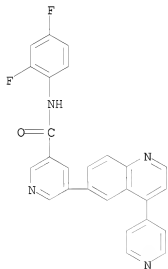


AB The title compds. I [R¹ = (un)substituted heterocycloalkyl, (hetero)aryl; R² = (un)substituted pyridinyl, pyrazolyl, etc.; R³, R⁴ = H, halo, acyl, etc.; n = 1-2; with the proviso], useful for inhibiting the activity/function of PI3 kinases, were prepared and formulated. That is, a multi-step synthesis of II, starting from 6-bromo-4-chloroquinoline, was given. Exemplified compds. I were tested and found active against PI3Kα (IC₅₀'s ranged from about 1 nM to 10 μM). Also invented is a method of treating one or more disease states selected from: autoimmune disorders, inflammatory diseases, cardiovascular diseases, neurodegenerative diseases, allergy, asthma, pancreatitis, multiorgan failure, kidney diseases, platelet aggregation, cancer, sperm motility, transplantation rejection, graft rejection and lung injuries by the administration of quinoline I.

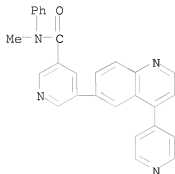
IT 1086060-63-OP 1086060-70-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of quinoline derivs. as PI3 kinase inhibitors useful in treatment of diseases)

RN 1086060-63-0 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,4-difluorophenyl)-5-[4-(4-pyridinyl)-6-quinolinyl]- (CA INDEX NAME)



RN 1086060-70-9 CAPLUS

CN 3-Pyridinecarboxamide, N-methyl-N-phenyl-5-[4-(4-pyridinyl)-6-quinolinyl]-
(CA INDEX NAME)REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1360516 CAPLUS

DOCUMENT NUMBER: 149:533929

TITLE: Preparation of sulfonamide derivatives as PGE2
production inhibitorsINVENTOR(S): Yokotani, Junichi; Taniguchi, Yoichi; Konishi,
Yoshitake; Tada, Yukie; Yanai, Minoru; Katai, Masaki

PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 214pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

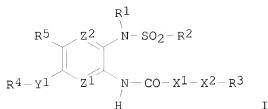
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008136378	A1	20081113	WO 2008-JP58015	20080425
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: JP 2007-118061 A 20070427

OTHER SOURCE(S): MARPAT 149:533929

GI

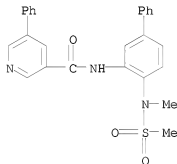


AB The title compds. I [R1 = H, (un)substituted alkyl, alkenyl, etc.; R2 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R3 = (un)substituted cycloalkyl, cycloalkenyl, aryl, etc.; R4 = (un)substituted cycloalkyl, cycloalkenyl, aryl, etc.; R5 = H, halo, cyano, etc.; X1 = (un)substituted alkylene, alkenylene, alkynylene, etc.; X2 = O, S, (protected) imino, etc.; Y1 = (protected) imino, (un)substituted alkylene, alkenylene, etc.; Z1 = N, CR6; R6 = H, halo, cyano, etc.; Z2 = N, CR7; R7 = H, halo, cyano, etc.; a proviso related to Z2 is given] are prepared. Thus, N-(2-(methyl(methylsulfonyl)amino)-5-phenylphenyl)benzamide was prepared in a multistep process starting from 4-bromo-N-methyl-2-nitroaniline and phenylboronic acid. In an assay using cells, compds. of this invention at 0.1 μ mol/L gave 62% to 96% inhibition against the production of prostaglandin E2.

IT 1078135-56-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of sulfonamide derivs. as PGE2 production inhibitors)

RN 1078135-56-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[4-[methyl(methylsulfonyl)amino][1,1'-biphenyl]-3-yl]-5-phenyl- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1339223 CAPLUS

DOCUMENT NUMBER: 149:534228

TITLE: Preparation of aminodihydrothiazine derivatives as BACE1 inhibitors

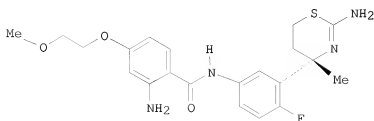
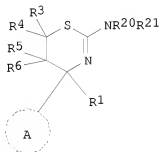
INVENTOR(S): Tamura, Yuusuke; Suzuki, Shinji; Tada, Yukio; Yonezawa, Shuji; Fujikoshi, Chiaki; Matsumoto, Sae; Kooriyama, Yuuji; Ueno, Tatsuhiko

PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan

SOURCE: PCT Int. Appl., 255pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008133274	A1	20081106	WO 2008-JP57847	20080423
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2008245082	A1	20081106	AU 2008-245082	20080423
CA 2683887	A1	20081106	CA 2008-2683887	20080423
PRIORITY APPLN. INFO.:			JP 2007-114288	A 20070424
			JP 2007-290589	A 20071108
			WO 2008-JP57847	W 20080423

OTHER SOURCE(S): MARPAT 149:534228
 GI



AB The title compds. I [ring A is an optionally substituted carbocyclic group or an optionally substituted heterocyclic group; R1 is optionally substituted lower alkyl, optionally substituted lower alkenyl, or

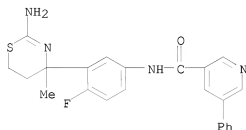
optionally substituted lower alkynyl, etc.; R20 and R21 are each independently hydrogen, optionally substituted lower alkyl, or optionally substituted acyl; and R3, R4, R5, and R6 are each independently hydrogen, halogeno, hydroxy, optionally substituted lower alkyl, etc.] are prepared. The title compound II was prepared in a multistep process starting from 2'-fluoroacetophenone. Compds. of this invention showed IC50 values of 0.02 μ M to 9.25 μ M against β -secretase. Pharmaceutical formulations are given.

IT 1075225-24-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminodihydrothiazine derivs. as BACE1 inhibitors)

RN 1075225-24-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-(2-amino-5,6-dihydro-4-methyl-4H-1,3-thiazin-4-yl)-4-fluorophenyl]-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1043511 CAPLUS

DOCUMENT NUMBER: 149:307537

TITLE: Preparation of aryl and heteroaryl amides bearing a trihydroxyphenyl moiety as E-, P- or L-selectin ligands for treatment, diagnosis or prophylaxis of acute or chronic inflammatory disorders

INVENTOR(S): Aydt, Ewald M.; Kranich, Remo

PATENT ASSIGNEE(S): Revotar Biopharmaceuticals A.-G., Germany

SOURCE: U.S. Pat. Appl. Publ., 27pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080207741	A1	20080828	US 2008-67059	20080501
WO 2007039112	A1	20070412	WO 2006-EP9153	20060920
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TR, TT, TZ,				

UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

EP 2005-30509 A 20050920

WO 2006-EP9153 W 20060920

EP 2005-205095 A 20050920

OTHER SOURCE(S): MARPAT 149:307537

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. e.g., I [X = (CH₂)_n(NH)mCO, (hetero)arylamino, carbonyl, etc.;
 m = 0, 1; n = 1-3; Y = substituted phenyl(amino), pyridyl(amino),
 pyrimidinyl(amino), piperazinyl, etc.], were prepared. Thus, a solution of
 2-(2,4,6-trimethoxyphenyl)acetic acid in CH₂Cl₂ was coupled with Me
 3-aminobenzoate in the presence of EDC hydrochloride, Et₃N and DMAP
 overnight at rt followed by workup to give II in 95% yield. The ester II
 was saponified with LiOH in THF/H₂O for 40 h at room temperature (99%) then

treated

with BBr₃ in CH₂Cl₂ at -78° to give 22%

3-[2-(2,4,6-trimethoxyphenyl)acetylaminobenzoic acid III. III inhibited
 binding of E-, P-, and L-selectin in the sialyl Lewis x tyrosine sulfate
 assay with IC₅₀ = 12.4 μM, 20.7 μM, and 22.1 μM, resp.

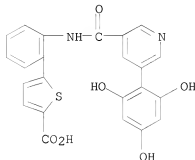
IT 929112-15-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of (hetero)aryl amides bearing a trihydroxyphenyl moiety as E-,
 P- or L-selectin ligands for treatment, diagnosis or prophylaxis of
 acute or chronic inflammatory disorders)

RN 929112-15-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[2-[[[5-(2,4,6-trihydroxyphenyl)-3-
 pyridinyl]carbonyl]amino]phenyl]- (CA INDEX NAME)



L4 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:223700 CAPLUS

DOCUMENT NUMBER: 148:285056

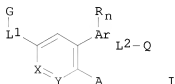
TITLE: Preparation of N-pyridinyl benzamides derivatives as
 cytokine inhibitors

INVENTOR(S): Boman, Erik; Ernst, Justin; Montalban, Antonio
 Garrido; Larson, Christopher; Lum, Christopher; Pei,
 Yazhong; Sebo, Lubomir; Urban, Jan; Wang, Zhijun; Zhu,
 Jay
 PATENT ASSIGNEE(S): Kemia, Inc., USA
 SOURCE: PCT Int. Appl., 309pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

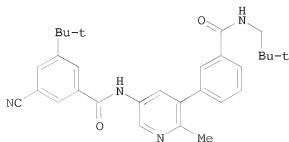
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008021388	A1	20080221	WO 2007-US18049	20070816
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: US 2006-838795P P 20060817
 US 2007-891470P P 20070223

OTHER SOURCE(S): MARPAT 148:285056
 GI



I



II

AB The title compds. I [X = CH, N or NO; Y = CH, N, NO, provided that X and Y are not both CH or NO; A = halo, alkyl, alkoxy, etc.; G = (un)substituted (hetero)aryl; Ar = 6-membered aryl or heteroaryl; L1 = CONH; L2 = a bond, CONH, CONHCH2, etc.; Q = (un)substituted alkyl, cycloalkyl, aryl, etc.; R

= H or alkyl; n = 0-2; with the provision] were prepared and disclosed as cytokine inhibitors. E.g., a multi-step synthesis of II, starting from 2-methyl-3-bromo-5-nitropyridine, was given. Each of 345 exemplified compds. I listed in a table was tested in the TNF α ELISA assay and was found to have activity therein, with most compds. having IC₅₀s below 10 μ M in this assay. In particular, I are useful as anti-inflammatory agents. Further disclosed are methods for their use in preventing or treating conditions mediated by cytokines, such as for example arthritis, pain, and cancer.

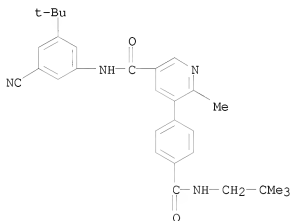
IT 1008137-45-8P 1008137-46-9P 1008137-47-0P
1008137-48-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-pyridinyl benzamides as cytokine inhibitors useful in treating and preventing cytokine-mediated diseases)

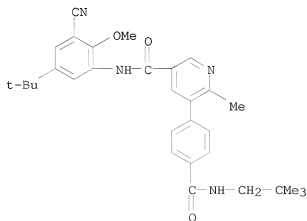
RN 1008137-45-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-cyano-5-(1,1-dimethylethyl)phenyl]-5-[4-[(2,2-dimethylpropyl)amino]carbonyl]phenyl]-6-methyl- (CA INDEX NAME)



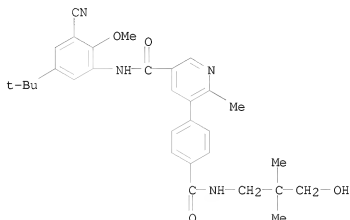
RN 1008137-46-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-cyano-5-(1,1-dimethylethyl)-2-methoxyphenyl]-5-[4-[(2,2-dimethylpropyl)amino]carbonyl]phenyl]-6-methyl- (CA INDEX NAME)



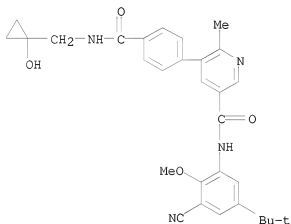
RN 1008137-47-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-cyano-5-(1,1-dimethylethyl)-2-methoxyphenyl]-5-[4-[[[(3-hydroxy-2,2-dimethylpropyl)amino]carbonyl]phenyl]-6-methyl- (CA INDEX NAME)



RN 1008137-48-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-cyano-5-(1,1-dimethylethyl)-2-methoxyphenyl]-5-[4-[[[(1-hydroxycyclopropyl)methyl]amino]carbonyl]phenyl]-6-methyl- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1454593 CAPLUS

DOCUMENT NUMBER: 148:70192

TITLE: Therapy using cytokine inhibitors

INVENTOR(S): Crowley, Constance A.; Delaet, Nancy G. J.; Ernst, Justin; Grove, Carrie Gail; Hepburn, Bonnie; King, Bernard; Larson, Christopher J.; Miller, Stephen; Pryor, Kent; Shuster, Lewis J.

PATENT ASSIGNEE(S): Kemia Inc., USA

SOURCE: PCT Int. Appl., 251pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/146712	A2	20071221	WO 2007-US70547	20070606
WO 2007/146712	A3	20081127		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
AU 2007257959	A1	20071221	AU 2007-257959	20070606
EP 2035005	A2	20090318	EP 2007-798190	20070606
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				

PRIORITY APPLN. INFO.:
 US 2006-812268P P 20060609
 US 2006-833078P P 20060724
 US 2006-835270P P 20060803
 WO 2007-US70547 W 20070606

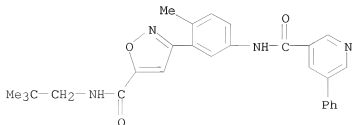
OTHER SOURCE(S): MARPAT 148:70192

AB The invention discloses methods for treating, preventing, modifying and managing cytokine-mediated disorders or related disorders, which comprise the administration of a compound, such as a cytokine inhibitor, alone or in combination with known therapeutics. The invention also relates to pharmaceutical compns. and dosing regimens using the disclosed compds. In particular, the invention relates to the use of compds. as disclosed herein, optionally in conjunction with other therapies, for the treatment of autoimmune diseases, inflammatory diseases, cardiovascular diseases, and cancer.

IT 943639-59-6
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (therapy using cytokine inhibitors)

RN 943639-59-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-[5-[(2,2-dimethylpropyl)amino]carbonyl]-3-
 isoxazolyl]-4-methylphenyl]-5-phenyl- (CA INDEX NAME)



L4 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:729095 CAPLUS

DOCUMENT NUMBER: 147:143408

TITLE: Arylisoxazolecarboxamides as cytokine inhibitors and their preparation, pharmaceutical compositions and use in the treatment of cytokine-mediated diseases

INVENTOR(S): Boman, Erik; Montalban, Antonio Garrido; Pei, Yazhong; Larson, Christopher; Wang, Zhijun; Urban, Jan; Deleat, Nancy G.L.; Sebo, Lubomir; Lum, Christopher; Ernst, Justin

PATENT ASSIGNEE(S): Kemia, Inc., USA

SOURCE: PCT Int. Appl., 241 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

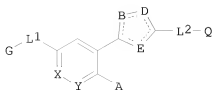
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

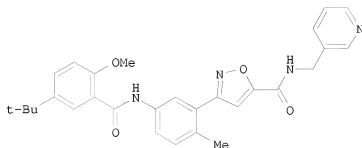
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007075896	A2	20070705	WO 2006-US48803	20061220
WO 2007075896	A3	20080306		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRIORITY APPLN. INFO.:		US 2005-753634P	P	20051222
		US 2006-787362P	P	20060330
		US 2006-842051P	P	20060901

OTHER SOURCE(S): MARPAT 147:143408

GI



I



II

AB The invention provides low mol. weight compds. of formula I useful as cytokine inhibitors, and compns. thereof. Compds. of formula I wherein X and Y are independently CH and N; A is F, Cl, Br, I, NH₂ and derivs., Cl-3 (halo)alkyl and O-Cl-3 (halo)alkyl; B, D, and E are independently N, NH and derivs., O, S, CH and (un)substituted C-alkyl; G is (un)substituted (hetero)aryl; L1 is CONH; L2 is (un)substituted (alkyl)amino(alkyl), (un)substituted alkyl-acyl, acyl, etc.; Q is H, (un)substituted alkyl, cycloalkyl, aryl and heterocyclyl; dotted lines are single and double bonds; and their stereoisomers, tautomers, solvates, prodrugs and pharmaceutically acceptable salts thereof, are claimed. In particular, compds. of the invention are useful as anti-inflammatory, anti-pain or anti-cancer agents. There are further provided methods for the preparation of such agents and their use in preventing or treating conditions mediated by cytokines. Example compound II was prepared by condensation of 2-methyl-5-nitrobenzaldehyde with hydroxylamine hydrochloride; the resulting 2-methyl-5-nitrobenzaldehyde oxime underwent cyclization with tert-Bu propiolate to give tert-Bu 3-(2-methyl-5-nitrophenyl)isoxazole-5-carboxylate, which underwent hydrolysis to give the corresponding isoxazole-5-carboxylic acid, which underwent amidation with 2-(aminomethyl)pyridine to give 3-(2-methyl-5-nitrophenyl)-N-(pyridin-3-yl)methylisoxazole-5-carboxamide, which underwent reduction to give 3-(5-amino-2-methylphenyl)-N-(pyridin-3-yl)methylisoxazole-5-carboxamide, which underwent amidation with 5-tert-butyl-2-methoxybenzoic acid to give compound II. All the invention compds. were evaluated for their cytokine inhibitory activity.

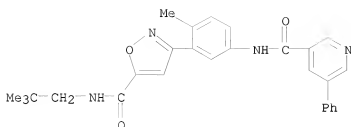
IT 943639-59-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of arylisoxazolecarboxamides as cytokine inhibitors useful in treatment and prevention of cytokine-mediated diseases)

RN 943639-59-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-[5-[(2,2-dimethylpropyl)amino]carbonyl]-3-isoxazolyl]-4-methylphenyl]-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:619333 CAPLUS

DOCUMENT NUMBER: 147:72639

TITLE: Pyridine derivatives, processes for preparing them,
pharmaceutical compositions containing them, and their
use as selective kinase inhibitors

INVENTOR(S): Kling, Marcel Robert; Burns, Chris John

PATENT ASSIGNEE(S): Cytopia Research Pty. Ltd., Australia

SOURCE: PCT Int. Appl., 72pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

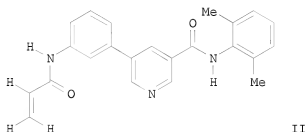
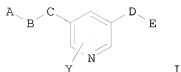
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007062459	A1	20070607	WO 2006-AU1799	20061129
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: AU 2005-906667 A 20051129

OTHER SOURCE(S): MARPAT 147:72639

GI



AB The invention relates to pyridine derivs. I, processes for preparing them, pharmaceutical prepn's. comprising them, and their pharmaceutical use. I are selective inhibitors of the enzyme Janus kinase 3, useful for the treatment of tyrosine kinase-associated diseases. In compds. I, A is H, CH₂=CHC(O)NH-, etc.; B is (un)substituted (hetero)aryl; C is a bond, NH, C(O), etc.; D is a bond, NH, O, S, etc.; E is (un)substituted alkyl, (hetero)aryl, etc.; Y is halo, OH, alkyl, etc.; including pharmaceutically acceptable prodrugs, salts, hydrates, solvates, crystal forms, and isomeric forms thereof. For instance, the invention compound II was prepared by substitution of 5-bromonicotinoyl chloride with 2,6-dimethylaniline followed by cross-coupling with 3-aminophenylboronic acid and condensation with acrylic acid. Representative examples of I exhibited a capacity to inhibit 50% of JAK activity at a concentration of 20 μ M.

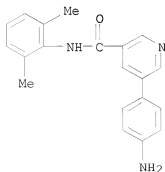
IT 1044945-81-4 1044945-82-5

RL: PRPH (Prophetic)

(Pyridine derivatives, processes for preparing them, pharmaceutical compositions containing them, and their use as selective kinase inhibitors)

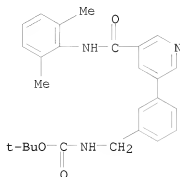
RN 1044945-81-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-aminophenyl)-N-(2,6-dimethylphenyl)- (CA INDEX NAME)



RN 1044945-82-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



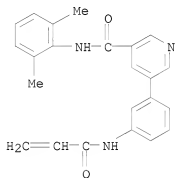
IT 940866-07-9P 940866-08-0P 940866-09-1P
 940866-10-4P 940866-11-5P 940866-12-6P
 940866-13-7P 940866-14-8P 940866-15-9P
 940866-16-0P 940866-17-1P 940866-18-2P
 940866-19-3P 940866-20-6P 940866-21-7P
 940866-22-8P 940866-23-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; selective kinase-inhibiting compds. useful in treatment of tyrosine kinase - associated diseases)

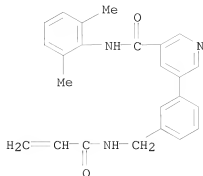
RN 940866-07-9 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[(1-oxo-2-propen-1-yl)amino]phenyl]- (CA INDEX NAME)



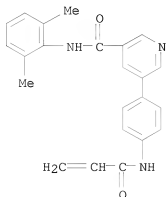
RN 940866-08-0 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[(1-oxo-2-propen-1-yl)amino]methyl]phenyl]- (CA INDEX NAME)



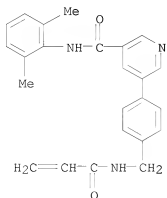
RN 940866-09-1 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[(1-oxo-2-propen-1-yl)amino]phenyl]- (CA INDEX NAME)



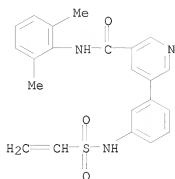
RN 940866-10-4 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[(1-oxo-2-propen-1-yl)amino]methyl]phenyl]- (CA INDEX NAME)



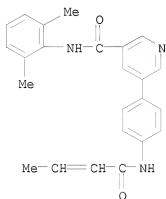
RN 940866-11-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[(ethenylsulfonyl)amino]phenyl]- (CA INDEX NAME)



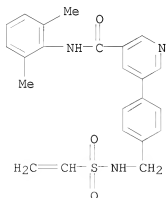
RN 940866-12-6 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[(1-oxo-2-buten-1-yl)amino]phenyl]- (CA INDEX NAME)



RN 940866-13-7 CAPLUS

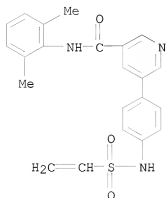
CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[[ethenylsulfonyl)amino]methyl]phenyl]- (CA INDEX NAME)



RN 940866-14-8 CAPLUS

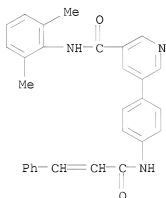
CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-

[(ethenylsulfonyl)amino]phenyl]- (CA INDEX NAME)



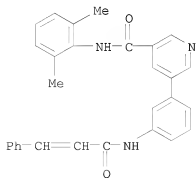
RN 940866-15-9 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[(1-oxo-3-phenyl-2-propen-1-yl)amino]phenyl]- (CA INDEX NAME)



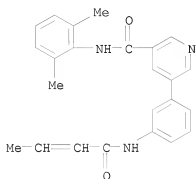
RN 940866-16-0 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[(1-oxo-3-phenyl-2-propen-1-yl)amino]phenyl]- (CA INDEX NAME)



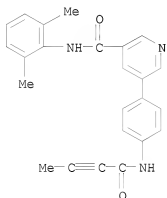
RN 940866-17-1 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[(1-oxo-2-buten-1-yl)amino]phenyl]- (CA INDEX NAME)



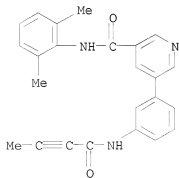
RN 940866-18-2 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[(1-oxo-2-butyne-1-yl)amino]phenyl]- (CA INDEX NAME)



RN 940866-19-3 CAPLUS

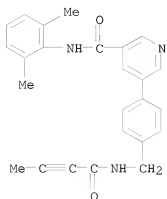
CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[(1-oxo-2-butyne-1-yl)amino]phenyl]- (CA INDEX NAME)



RN 940866-20-6 CAPLUS

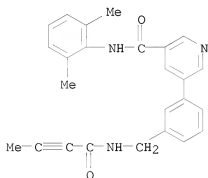
CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[4-[[1-oxo-2-butyne-1-

yl)amino]methyl]phenyl]- (CA INDEX NAME)



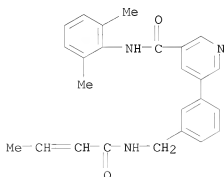
RN 940866-21-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[[(1-oxo-2-butyn-1-yl)amino]methyl]phenyl]- (CA INDEX NAME)



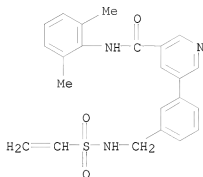
RN 940866-22-8 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[[(1-oxo-2-buten-1-yl)amino]methyl]phenyl]- (CA INDEX NAME)

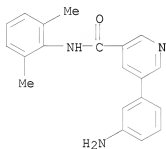


RN 940866-23-9 CAPLUS

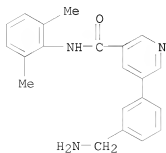
CN 3-Pyridinecarboxamide, N-(2,6-dimethylphenyl)-5-[3-[[(ethenylsulfonyl)amino]methyl]phenyl]- (CA INDEX NAME)



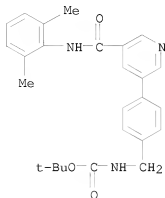
IT 940866-24-0P, 5-(3-Aminophenyl)-N-(2,6-dimethylphenyl)nicotinamide 940866-25-1P,
 5-[3-(Aminomethyl)phenyl]-N-(2,6-dimethylphenyl)nicotinamide
 940866-26-2P 940866-27-3P,
 5-[4-(Aminomethyl)phenyl]-N-(2,6-dimethylphenyl)nicotinamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (intermediate; selective kinase-inhibiting compds. useful in treatment
 of tyrosine kinase - associated diseases)
 RN 940866-24-0 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(3-aminophenyl)-N-(2,6-dimethylphenyl)- (CA
 INDEX NAME)



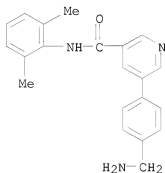
RN 940866-25-1 CAPLUS
 CN 3-Pyridinecarboxamide, 5-[3-(aminomethyl)phenyl]-N-(2,6-dimethylphenyl)-
 (CA INDEX NAME)



RN 940866-26-2 CAPLUS
 CN Carbamic acid, N-[[4-[5-[(2,6-dimethylphenyl)amino]carbonyl]-3-pyridinyl]phenyl]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 940866-27-3 CAPLUS
 CN 3-Pyridinecarboxamide, 5-[4-(aminomethyl)phenyl]-N-(2,6-dimethylphenyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:526098 CAPLUS

DOCUMENT NUMBER: 147:45202

TITLE: Preparation of novel anthranilic acids as antibacterial agents: Extensive evaluation of structural and physical properties on antibacterial activity and human serum albumin affinity

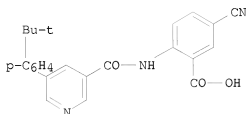
AUTHOR(S): Thorarensen, Atli; Li, Jianke; Wakefield, Brian D.; Romero, Donna L.; Marotti, Keith R.; Sweeney, Michael T.; Zurenko, Gary E.; Sarver, Ronald W.

CORPORATE SOURCE: Medicinal Chemistry and Infectious Diseases Biology, Pharmacia Corporation, Kalamazoo, MI, 49001, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2007), 17(11), 3113-3116

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 147:45202
 GI



I

AB In the past few years a significant effort has been devoted by Pharmacia toward the discovery of novel antibiotics. We describe the preparation of several selected analogs such as I to probe the dependency of this template for antibacterial activity and the affinity these compds. have for human serum albumin (HSA). These analogs illustrate that decreased affinity for HSA can be achieved while retaining relevant antibacterial activity. The most important factor for reduced HSA affinity is decrease in log P rather than a structural change.

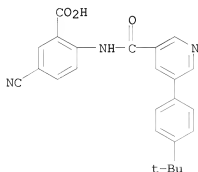
IT 668976-15-6P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antibacterial activity and human serum albumin affinity of anthranilic acids)

RN 668976-15-6 CAPLUS

CN Benzoic acid, 5-cyano-2-[[[5-[4-(1,1-dimethylethyl)phenyl]-3-pyridinyl]carbonyl]amino]- (CA INDEX NAME)

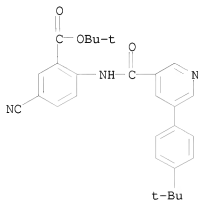


IT 939791-54-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(antibacterial activity and human serum albumin affinity of anthranilic

acids)
 RN 939791-54-5 CAPLUS
 CN Benzoic acid, 5-cyano-2-[[[5-[4-(1,1-dimethylethyl)phenyl]-3-pyridinyl]carbonyl]amino]-, 1,1-dimethylethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 (4 CITINGS)
 REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2007:322889 CAPLUS
 DOCUMENT NUMBER: 146:344355
 TITLE: Novel phloroglucinol derivatives having selectin
 ligand activity
 INVENTOR(S): Kranich, Remo; Aydt, Ewald M.
 PATENT ASSIGNEE(S): Revotar Biopharmaceuticals AG, Germany
 SOURCE: Eur. Pat. Appl., 36pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1764096	A1	20070321	EP 2005-20509	20050920
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
AU 2006299182	A1	20070412	AU 2006-299182	20060920
CA 2622467	A1	20070412	CA 2006-2622467	20060920
EP 1937237	A1	20080702	EP 2006-792184	20060920
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
MX 2008003700	A	20080616	MX 2008-3700	20080314
IN 2008CN01360	A	20081128	IN 2008-CN1360	20080319
CN 101312719	A	20081126	CN 2006-80043183	20080519
PRIORITY APPLN. INFO.:			EP 2005-20509	A 20050920
			WO 2006-EP9153	W 20060920

OTHER SOURCE(S): CASREACT 146:344355; MARPAT 146:344355
 AB Pharmaceutical compns. comprising at least one compound containing a
 2,4,6-trihydroxyphenyl subunit, pharmaceutically acceptable salts, esters,

or amides and prodrugs thereof, useful in medicine are described. The compds. are applied to modulate the in vitro and in vivo binding processes mediated by E-, P- or L-selectin for the treatment, diagnosis or prophylaxis of inflammatory disorders and other conditions where selectin-mediated processes play a role. Thus, 3-[2-(2,4,6-trihydroxyphenyl)acetyl]amino]benzoic acid was prepared (yield 22%) and assayed for its ability to inhibit the binding of P-, L-, or E-selectin chimeric mols. to sLex and tyrosine sulfate residues linked to a polymeric matrix as a PSGL-1 substitute. The IC50-values for P-, L-, and E-selectin binding were 41.2 μ M, 37.1 μ M, and 35.1 μ M, resp.

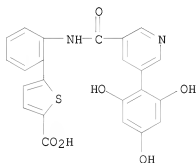
IT 929112-15-2P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(phloroglucinol derivs. having selectin ligand activity for treatment, diagnosis or prophylaxis of inflammatory disorders)

RN 929112-15-2 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[2-[[5-(2,4,6-trihydroxyphenyl)-3-pyridinyl]carbonyl]amino]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:322859 CAPLUS

DOCUMENT NUMBER: 146:323555

TITLE: Novel nitrocatechol derivatives having selectin ligand activity

INVENTOR(S): Aydt, Ewald M.; Kranich, Remo

PATENT ASSIGNEE(S): Revotar Biopharmaceuticals AG, Germany

SOURCE: Eur. Pat. Appl., 45pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1764095	A1	20070321	EP 2005-20508	20050920
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
CA 2006299184	A1	20070412	CA 2006-299184	20060920
CA 2622935	A1	20070412	CA 2006-2622935	20060920
WO 2007039114	A1	20070412	WO 2006-EP9155	20060920

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1937238 A1 20080702 EP 2006-805784 20060920
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 JP 2009508902 T 20090305 JP 2008-531609 20060920
 MX 2008003698 A 20080606 MX 2008-3698 20080314
 IN 2008CN01354 A 20081128 IN 2008-CN1354 20080319
 CN 101374508 A 20090225 CN 2006-80038782 20080417
 US 20090105280 A1 20090423 US 2008-67341 20080501

PRIORITY APPLN. INFO.:

EP 2005-20508 A 20050920
 WO 2006-EP9155 W 20060920

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 146:323555

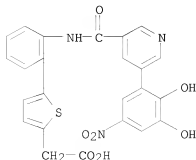
AB Pharmaceutical compns. comprising at least one nitrocatechol-based compound or the pharmaceutically acceptable salts, esters or amides and prodrugs thereof and a pharmaceutically acceptable carrier, useful in a medicine are described. The compds. are applied to modulate the in vitro and in vivo binding processes mediated by E-, P- or L-selectin for the treatment, diagnosis or prophylaxis of inflammatory disorders and other conditions where selectin-mediated processes play a role. Thus, compds. of the present invention were assayed for their ability to inhibit the binding of P-, L-, or E-selectin chimeric mols. to sLex and tyrosine sulfate residues linked to a polymeric matrix as a PSGL-1 substitute.

IT 929019-69-2P

RL: DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (nitrocatechol derivs. having selectin ligand activity for treatment, diagnosis or prophylaxis of inflammatory disorders)

RN 929019-69-2 CAPLUS

CN 2-Thiopheneacetic acid, 5-[2-[[[5-(2,3-dihydroxy-5-nitrophenyl)-3-pyridinyl]carbonyl]amino]phenyl]- (CA INDEX NAME)



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

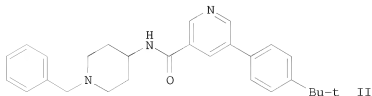
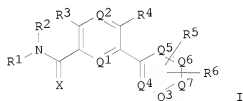
L4 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2007:83548 CAPLUS
 DOCUMENT NUMBER: 146:184364
 TITLE: Preparation of nicotinamides as inhibitors of mitotic kinesin
 INVENTOR(S): Pinkerton, Anthony B.; David, Robert L.
 PATENT ASSIGNEE(S): Kalypsys, Inc., USA
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007011760	A2	20070125	WO 2006-US27450	20060713
WO 2007011760	A3	20070907		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2005-699523P P 20050715
 OTHER SOURCE(S): MARPAT 146:184364
 GI



AB The title compds. I [R1, R2 = H, alkyl, alkoxyalkyl, etc.; or NR1R2 = (un)substituted heterocycloalkyl; R3-R7 = H, carboxy, alkoxy carbonyl, etc.; X = O or S; Q1, Q2 = CR7 and N (with the proviso that only one of Q1 and Q2 = CR7); Q3-Q7 = CR7 and N], useful as inhibitors of KSP for the

treatment or prevention of cellular proliferative diseases, were prepared E.g., a 2-step synthesis of II, starting from 5-bromonicotinic acid and 1-benzylpiperidin-4-ylamine, was given. Exemplified compds. I were tested in vitro KSP ATP depletion assay. For example, II showed IC50 of ≤ 20 μ M in that assay. Pharmaceutical composition comprising the compound I as well as a method of treatment of a KSP-mediated disease comprising the administration of compound I in combination with another therapeutic agents are disclosed.

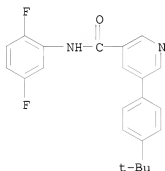
IT 1057089-71-0 1057089-78-7 1057089-81-2
1057089-82-3

RL: PRPH (Prophetic)

(Preparation of nicotinamides as inhibitors of mitotic kinesin)

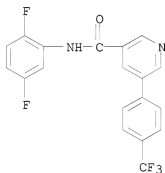
RN 1057089-71-0 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,5-difluorophenyl)-5-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



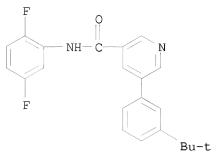
RN 1057089-78-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,5-difluorophenyl)-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

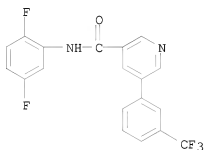


RN 1057089-81-2 CAPLUS

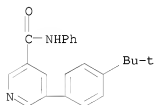
CN 3-Pyridinecarboxamide, N-(2,5-difluorophenyl)-5-[3-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



RN 1057089-82-3 CAPLUS
CN 3-Pyridinecarboxamide, N-(2,5-difluorophenyl)-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



IT 921612-32-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of nicotinamides as inhibitors of mitotic kinesin useful in treatment and prevention of proliferative diseases)
RN 921612-32-0 CAPLUS
CN 3-Pyridinecarboxamide, 5-[4-(1,1-dimethylethyl)phenyl]-N-phenyl- (CA INDEX NAME)



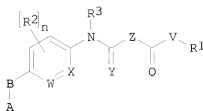
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L4 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:982164 CAPLUS
DOCUMENT NUMBER: 145:356811
TITLE: Preparation of fused heterocyclic kinase inhibitors
INVENTOR(S): Borzilleri, Robert M.; Chen, Zhong; Huynh, Tram N.; Vaccaro, Wayne; Chen, Xiao-Tao; Kim, Kyoung S.; Cai, Zhen-Wei

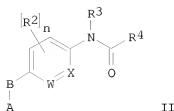
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
 SOURCE: U.S. Pat. Appl. Publ., 141 pp., Cont.-in-part of U.S. Ser. No. 167,043.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060211695	A1	20060921	US 2005-292358	20051201
US 7439246	B2	20081021		
US 20050288290	A1	20051229	US 2005-167043	20050624
AU 2005259894	A1	20060112	AU 2005-259894	20050628
AU 2005259894	B2	20090319		
AU 2005260056	A1	20060112	AU 2005-260056	20050628
AU 2005260056	B2	20090827		
CA 2571680	A1	20060112	CA 2005-2571680	20050628
EP 1761268	A2	20070314	EP 2005-791275	20050628
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU				
EP 1768983	A2	20070404	EP 2005-764291	20050628
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU				
EP 1771177	A2	20070411	EP 2005-790229	20050628
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU				
CN 1993130	A	20070704	CN 2005-80025519	20050628
CN 101005843	A	20070725	CN 2005-80027728	20050628
CN 101027305	A	20070829	CN 2005-80027173	20050628
JP 2008504366	T	20080214	JP 2007-519322	20050628
JP 2008504367	T	20080214	JP 2007-519390	20050628
JP 2008504368	T	20080214	JP 2007-519416	20050628
BR 2005012722	A	20080401	BR 2005-12722	20050628
IN 2006DN07597	A	20070803	IN 2006-DN7597	20061215
IN 2006DN07602	A	20070803	IN 2006-DN7602	20061215
MX 2006015032	A	20070208	MX 2006-15032	20061219
MX 2006015192	A	20070228	MX 2006-15192	20061220
IN 2006DN07759	A	20070817	IN 2006-DN7759	20061220
ZA 2006010780	A	20081126	ZA 2006-10780	20061220
KR 2007028458	A	20070312	KR 2006-727376	20061227
KR 2007037448	A	20070404	KR 2006-727370	20061227
NO 2007000453	A	20070124	NO 2007-453	20070124
NO 2007000506	A	20070214	NO 2007-506	20070126
NO 2007000514	A	20070312	NO 2007-514	20070126
PRIORITY APPLN. INFO.:			US 2004-583459P	P 20040628
			US 2004-612563P	P 20040923
			US 2005-167043	A2 20050624
			WO 2005-US22682	W 20050628
			WO 2005-US23099	W 20050628
			WO 2005-US23198	W 20050628

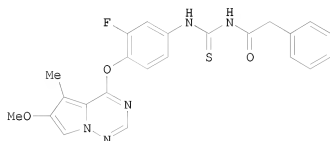
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 145:356811
 GI



I



II



III

AB The title compds. I and II [R1 = H, alkyl, cycloalkyl, etc.; R2 = H, halo, CN, etc.; B = O, NR8, S, SO, SO2, CR9C10; V = NR11 or (CR47R48)p; W or X = C or N; Y = O, S, NR12; Z = CR13R14, (CR13R14)mNR15; m = 0-2; n = 0-4; p = 0-4, provided that if p = 0, R1 is not Ph; A = substituted pyrrolo[2,1-f][1,2,4]triazin-4-yl, pyrrolo[1,2-b]pyridazin-4-yl, pyrrolo[2,3-b]pyridin-4-yl, etc.; R3, R8, R11, R15 = H, alkyl, cycloalkyl, etc.; R4 = (un)substituted aryl, heteroaryl, heterocycloalkyl; R9, R10 = H, halo, alkyl, etc.; R12 = H, alkyl, CN, etc.; R13-R15, R47, R48 = H, halo, alkyl, etc.; and their pharmaceutically acceptable salts], useful as protein kinase inhibitors for treating cancer and other protein kinase mediated diseases, were prepared. E.g., a multi-step synthesis of III, starting from Et 5-methyl-4-oxo-3,4-dihydropyrrolo[2,1-f][1,2,4]triazine-6-carboxylate, was given. Compds. I and II inhibit the Met kinase with IC50 values between 0.01 to 100 μ M. Pharmaceutical compns. comprising the compound I or II alone or in combination with other antitumor agent are disclosed.

IT 888719-13-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrrolopyridines and pyrrolotriazines as kinase inhibitors for treating cancer)

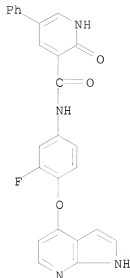
RN 888719-13-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-fluoro-4-(1H-pyrrolo[2,3-b]pyridin-4-yloxy)phenyl]-1,2-dihydro-2-oxo-5-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 888719-12-8

CMF C25 H17 F N4 O3



CM 2

CRN 76-05-1

CMF C2 H F3 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:608560 CAPLUS

DOCUMENT NUMBER: 145:83228

TITLE: Preparation of pyrid-2-ones useful as inhibitors of Tec family protein kinases for the treatment of inflammatory, proliferative and immunologically-mediated diseases

INVENTOR(S): Charrier, Jean-Damien; Durrant, Steven; Ramaya, Sharn; Jimenez, Juan-Miguel; Rutherford, Alistair

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006065946	A1	20060622	WO 2005-US45336	20051215

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

AU 2005316540	A1	20060622	AU 2005-316540	20051215
CA 2591413	A1	20060622	CA 2005-2591413	20051215
US 20060183911	A1	20060817	US 2005-304057	20051215
EP 1831168	A1	20070912	EP 2005-854119	20051215
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
JP 2008524233	T	20080710	JP 2007-546878	20051215
ZA 2007004971	A	20080925	ZA 2007-4971	20051215
MX 2007007330	A	20071004	MX 2007-7330	20070618
IN 2007KN02260	A	20070817	IN 2007-KN2260	20070619
NO 2007003628	A	20070716	NO 2007-3628	20070716
KR 2007095952	A	20071001	KR 2007-716337	20070716
CN 101111479	A	20080123	CN 2005-80047554	20070731
JP 2009062391	A	20090326	JP 2008-287171	20081107

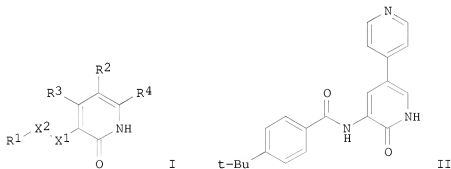
PRIORITY APPLN. INFO.:

US 2004-636754P	P	20041216
US 2005-673870P	P	20050422
JP 2007-546878	A3	20051215
WO 2005-US45336	W	20051215

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 145:83228; MARPAT 145:83228

GI



AB The title compds. I [R3, R4 = H, halo or alkyl optionally substituted with halo, alkyl, OCH3, NO2, NH2, CN, NHCH3, SCH3, or N(CH3)2; R2 = 3-8 membered saturated, partially unsatd., or fully unsatd. monocyclic ring having 0-3 heteroatoms independently selected from N, O, or S, or 8-12 membered saturated, partially unsatd., or fully unsatd. bicyclic ring system having 0-5 heteroatoms independently selected from N, O, or S; X1, X2 = C(O), NR, or SO2 (wherein one of X1 or X2 = NR and other of X1 or X2 = C(O) or SO2); R1 = TQ (T = a bond or alkylene wherein up tp 3 methylene units are optionally replaced by O, S, CS, etc.; Q = H, alkyl, 3-8 membered saturated,

partially unsatd., or fully unsatd. monocyclic ring having 0-3 heteroatoms independently selected from N, O, or S, or 8-12 membered saturated, partially unsatd., or fully unsatd. bicyclic ring system having 0-5 heteroatoms independently selected from N, O, or S] which are effective as inhibitors of Tec family (e.g., Tec, Btk, Itk/Etk/Tsk, Bmx, Txk/Rlk) protein kinases, were prepared. Thus, reacting amrinone with 4-tert-butylbenzoyl chloride afforded 9% II which showed K_i between 0.1 μ M and 1 μ M against ITK. The compds. I and their pharmaceutically acceptable compns. are useful for treating or preventing a variety of diseases, disorders or conditions, including, but not limited to, an autoimmune, inflammatory, proliferative, or hyperproliferative disease or an immunol.-mediated disease.

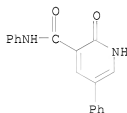
IT 893439-37-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyridones as inhibitors of Tec family protein kinases useful for treating and preventing inflammatory, proliferative, hyperproliferative, autoimmune or immunol.-mediated disease)

RN 893439-37-7 CAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-2-oxo-N,5-diphenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:534761 CAPLUS

DOCUMENT NUMBER: 145:28024

TITLE: Preparation of fused heterocyclic kinase inhibitors
 INVENTOR(S): Borzilleri, Robert M.; Chen, Zhong; Huynh, Tram N.;

Vaccaro, Wayne; Chen, Xiao-Tao; Kim, Kyoung S.; Cai, Zhen-Wei

PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA

SOURCE: U.S. Pat. Appl. Publ., 141 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

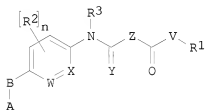
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050288290	A1	20051229	US 2005-167043	20050624
AU 2005259894	A1	20060112	AU 2005-259894	20050628
AU 2005259894	B2	20090319		
AU 2005260056	A1	20060112	AU 2005-260056	20050628
AU 2005260056	B2	20090827		
CA 2571680	A1	20060112	CA 2005-2571680	20050628

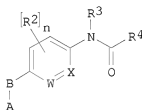
WO 2006004636	A2	20060112	WO 2005-US22682	20050628
WO 2006004636	A3	20060526		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2006004833	A2	20060112	WO 2005-US23099	20050628
WO 2006004833	A3	20060713		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2006004884	A2	20060112	WO 2005-US23198	20050628
WO 2006004884	A3	20060323		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1761268	A2	20070314	EP 2005-791275	20050628
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU			
EP 1768983	A2	20070404	EP 2005-764291	20050628
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU			
EP 1771177	A2	20070411	EP 2005-790229	20050628
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU			
CN 1993130	A	20070704	CN 2005-80025519	20050628
CN 101005843	A	20070725	CN 2005-80027728	20050628
CN 101027305	A	20070829	CN 2005-80027173	20050628
JP 2008504366	T	20080214	JP 2007-519322	20050628
JP 2008504367	T	20080214	JP 2007-519390	20050628
JP 2008504368	T	20080214	JP 2007-519416	20050628

BR 2005012722	A	20080401	BR 2005-12722	20050628
US 20060211695	A1	20060921	US 2005-292358	20051201
US 7439246	B2	20081021		
IN 2006DN07597	A	20070803	IN 2006-DN7597	20061215
IN 2006DN07602	A	20070803	IN 2006-DN7602	20061215
MX 2006015032	A	20070208	MX 2006-15032	20061219
MX 2006015192	A	20070228	MX 2006-15192	20061220
IN 2006DN07759	A	20070817	IN 2006-DN7759	20061220
ZA 2006010780	A	20081126	ZA 2006-10780	20061220
KR 2007028458	A	20070312	KR 2006-727376	20061227
KR 2007037448	A	20070404	KR 2006-727370	20061227
NO 2007000453	A	20070124	NO 2007-453	20070124
NO 2007000506	A	20070214	NO 2007-506	20070126
NO 2007000514	A	20070312	NO 2007-514	20070126
PRIORITY APPLN. INFO.:			US 2004-583459P	P 20040628
			US 2004-612563P	P 20040923
			US 2005-167043	A2 20050624
			WO 2005-US22682	W 20050628
			WO 2005-US23099	W 20050628
			WO 2005-US23198	W 20050628

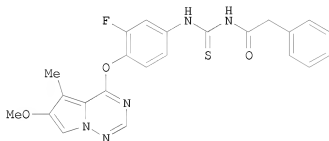
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 145:28024; MARPAT 145:28024
 GI



I



II



III

AB The title compds. I and II (R1 = H, alkyl, cycloalkyl, etc.; R2 = H, halo, CN, etc.; B = O, NR8, S, SO, CR9C10; V = NR11 or (CR47R48)p; W or X = C or N; Y = O, S, NR12; Z = CR13R14, (CR13R14)mNR15; m = 0-2; n = 0-4; p = 0-4, provided that if p = 0, R1 is not Ph; A = substituted pyrrolo[2,1-f][1,2,4]triazin-4-yl, pyrrolo[1,2-b]pyridazin-4-yl, pyrrolo[2,3-b]pyridin-4-yl, etc.; R3, R8, R11, R15 = H, alkyl, cycloalkyl, etc.; R4 = (un)substituted aryl, heteroaryl, heterocycloalkyl; R9, R10 = H, halo, alkyl, etc.; R12 = H, alkyl, CN, etc.; R13-R15, R47, R48 = H, halo, alkyl, etc.; and their pharmaceutically acceptable salts], useful as protein kinase inhibitors for treating cancer and other protein kinase mediated diseases, were prepared. E.g., a multi-step synthesis of III, starting from Et 5-methyl-4-oxo-3,4-dihydropyrrolo[2,1-f][1,2,4]triazin-6-

carboxylate, was given. Compds. I and II inhibit the Met kinase with IC50 values between 0.01 to 100 μ M. Pharmaceutical compns. comprising the compound I or II alone or in combination with other antitumor agent are disclosed.

IT 888719-13-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrrolopyridines and pyrrolotriazines as kinase inhibitors for treating cancer)

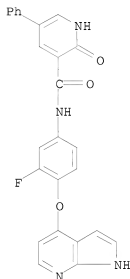
RN 888719-13-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-fluoro-4-(1H-pyrrolo[2,3-b]pyridin-4-yloxy)phenyl]-1,2-dihydro-2-oxo-5-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 888719-12-8

CMF C25 H17 F N4 O3



CM 2

CRN 76-05-1

CMF C2 H F3 O2



OS.CITING REF COUNT: 5

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

L4 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:534671 CAPLUS

DOCUMENT NUMBER: 145:28023

TITLE: Preparation of pyrrolopyridines and pyrrolotriazines as kinase inhibitors for treating cancer

INVENTOR(S): Borzillieri, Robert M.; Chen, Zhong; Hunt, John T.; Huynh, Tram; Poss, Michael A.; Schroeder, Gretchen M.; Vaccaro, Wayne; Wong, Tai W.; Chen, Xiao-Tao; Kim, Kyoung S.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: U.S. Pat. Appl. Publ., 135 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

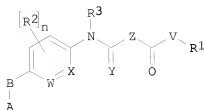
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060004006	A1	20060105	US 2005-167049	20050624
US 7173031	B2	20070206		
AU 2005259894	A1	20060112	AU 2005-259894	20050628
AU 2005259894	B2	20090319		
AU 2005260056	A1	20060112	AU 2005-260056	20050628
AU 2005260056	B2	20090827		
CA 2571680	A1	20060112	CA 2005-2571680	20050628
WO 2006004636	A2	20060112	WO 2005-US22682	20050628
WO 2006004636	A3	20060526		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
WO 2006004833	A2	20060112	WO 2005-US23099	20050628
WO 2006004833	A3	20060713		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
WO 2006004884	A2	20060112	WO 2005-US23198	20050628
WO 2006004884	A3	20060323		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,				

	NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1761268	A2	20070314	EP 2005-791275	20050628
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU			
EP 1768983	A2	20070404	EP 2005-764291	20050628
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU			
EP 1771177	A2	20070411	EP 2005-790229	20050628
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV, MK, YU			
CN 1993130	A	20070704	CN 2005-80025519	20050628
CN 101005843	A	20070725	CN 2005-80027728	20050628
CN 101027305	A	20070829	CN 2005-80027173	20050628
JP 2008504366	T	20080214	JP 2007-519322	20050628
JP 2008504367	T	20080214	JP 2007-519390	20050628
JP 2008504368	T	20080214	JP 2007-519416	20050628
BR 2005012722	A	20080401	BR 2005-12722	20050628
IN 2006DN07597	A	20070803	IN 2006-DN7597	20061215
IN 2006DN07602	A	20070803	IN 2006-DN7602	20061215
MX 2006015032	A	20070208	MX 2006-15032	20061219
MX 2006015192	A	20070228	MX 2006-15192	20061220
IN 2006DN07759	A	20070817	IN 2006-DN7759	20061220
ZA 2006010780	A	20081126	ZA 2006-10780	20061220
KR 2007028458	A	20070312	KR 2006-727376	20061227
KR 2007037448	A	20070404	KR 2006-727370	20061227
NO 2007000453	A	20070124	NO 2007-453	20070124
NO 2007000506	A	20070214	NO 2007-506	20070126
NO 2007000514	A	20070312	NO 2007-514	20070126
PRIORITY APPLN. INFO.:			US 2004-583459P	P 20040628
			US 2004-612563P	P 20040923
			WO 2005-US22682	W 20050628
			WO 2005-US23099	W 20050628
			WO 2005-US23198	W 20050628

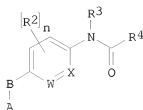
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 145:28023

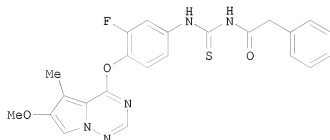
GI



I



II



III

AB The title compds. I and II [R1 = H, alkyl, cycloalkyl, etc.; R2 = H, halo, CN, etc.; B = O, NR8, S, SO, SO2, CR9C10; V = NR11 or (CR47R48)p; W or X = C or N; Y = O, S, NR12; Z = CR13R14, (CR13R14)mNR15; m = 0-2; n = 0-4; p = 0-4, provided that if p = 0, R1 is not Ph; A = substituted pyrrolo[2,1-f][1,2,4]triazin-4-yl, pyrrolo[1,2-b]pyridazin-4-yl, pyrrolo[2,3-b]pyridin-4-yl, etc.; R3, R8, R11, R15 = H, alkyl, cycloalkyl, etc.; R4 = (un)substituted aryl, heteroaryl, heterocycloalkyl; R9, R10 = H, halo, alkyl, etc.; R12 = H, alkyl, CN, etc.; R13-R15, R47, R48 = H, halo, alkyl, etc.; and their pharmaceutically acceptable salts], useful as protein kinase inhibitors for treating cancer and other protein kinase mediated diseases, were prepared E.g., a multi-step synthesis of III, starting from Et 5-methyl-4-oxo-3,4-dihydropyrrolo[2,1-f][1,2,4]triazine-6-carboxylate, was given. Compds. I and II inhibit the Met kinase with IC50 values between 0.01 to 100 μ M. Pharmaceutical compns. comprising the compound I or II alone or in combination with other antitumor agent are disclosed.

IT 888719-13-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrrolopyridines and pyrrolotriazines as kinase inhibitors for treating cancer)

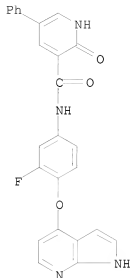
RN 888719-13-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-fluoro-4-(1H-pyrrolo[2,3-b]pyridin-4-yloxy)phenyl]-1,2-dihydro-2-oxo-5-phenyl-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 888719-12-8

CMF C25 H17 F N4 O3



CM 2

CRN 76-05-1

CMF C2 H F3 O2



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)
REFERENCE COUNT: 205 THERE ARE 205 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 22 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:333943 CAPLUS
DOCUMENT NUMBER: 145:62755
TITLE: Polymer-Supported Synthesis of Pyridone-Focused
Libraries as Inhibitors of Anaplastic Lymphoma Kinase
Zhu, Tong; Yan, Zheng; Chucholowski, Alexander; Webb,
Thomas R.; Li, Rongshi
CORPORATE SOURCE: Department of High Throughput Medicinal Chemistry,
ChemBridge Research Laboratories, San Diego, CA,
92127, USA
SOURCE: Journal of Combinatorial Chemistry (2006), 8(3),
401-409
CODEN: JCCHFF; ISSN: 1520-4766
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:62755

AB Two series of arylpyridonecarboxamides were prepared by solid-phase synthesis as potential inhibitors of anaplastic lymphoma kinase.

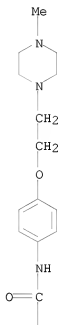
IT 890652-04-7P 890652-05-8P 890652-06-9P
 890652-07-0P 890652-08-1P 890652-12-7P
 890652-13-8P 890652-14-9P 890652-15-0P
 890652-16-1P 890652-17-2P 890652-18-3P
 890652-19-4P 890652-23-0P 890652-29-6P
 890652-33-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (polymer-supported synthesis of pyridone-focused libraries as inhibitors of anaplastic lymphoma kinase)

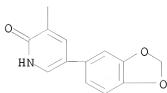
RN 890652-04-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[2-(4-methyl-1-piperazinyl)ethoxy]phenyl]-2-oxo- (CA INDEX NAME)

PAGE 1-A

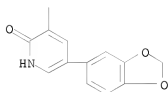
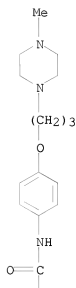


PAGE 2-A



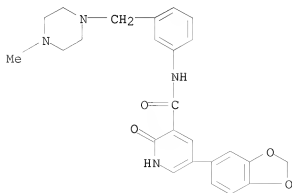
RN 890652-05-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[3-(4-methyl-1-piperazinyl)propoxy]phenyl]-2-oxo- (CA INDEX NAME)



RN 890652-06-9 CAPLUS

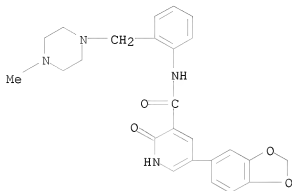
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[3-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)



10/537,719

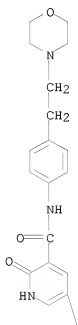
RN 890652-07-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[2-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 890652-08-1 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[2-(4-morpholinyl)ethyl]phenyl]-2-oxo- (CA INDEX NAME)



PAGE 1-A

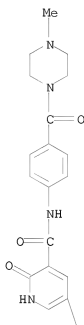
PAGE 2-A



RN 890652-12-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[(4-methyl-1-piperazinyl)carbonyl]phenyl]-2-oxo- (CA INDEX NAME)

PAGE 1-A

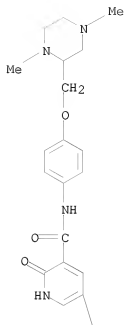


PAGE 2-A

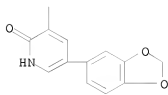
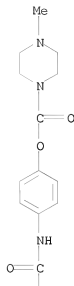


RN 890652-13-8 CAPLUS

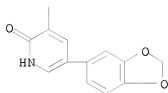
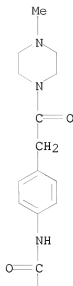
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[4-[(1,4-dimethyl-2-piperazinyl)methoxy]phenyl]-1,2-dihydro-2-oxo- (CA INDEX NAME)



RN 890652-14-9 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-methyl-,
 4-[[1,5-[[4-[[4-methyl-1-piperazinecarboxylic acid]]-1,2-dihydro-2-oxo-3-
 pyridinyl]carbonylamino]phenyl]oxy]methyl]-1-methyl-1H-imidazole (CA INDEX NAME)

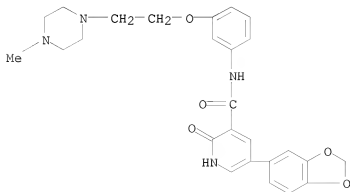


RN 890652-15-0 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 890652-16-1 CAPLUS

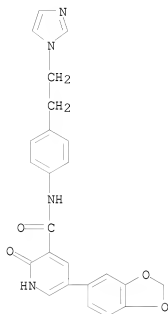
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[3-[2-(4-methyl-1-piperazinyl)ethoxy]phenyl]-2-oxo- (CA INDEX NAME)



10/537,719

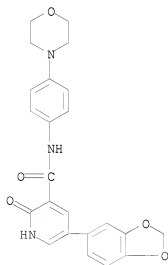
RN 890652-17-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[2-(1H-imidazol-1-yl)ethyl]phenyl]-2-oxo- (CA INDEX NAME)



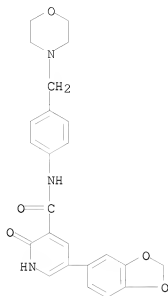
RN 890652-18-3 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-(4-morpholinyl)phenyl]-2-oxo- (CA INDEX NAME)



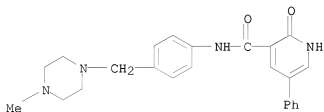
RN 890652-19-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-(4-morpholinylmethyl)phenyl]-2-oxo- (CA INDEX NAME)



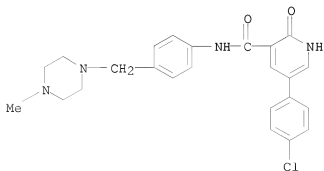
RN 890652-23-0 CAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-N-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo-5-phenyl- (CA INDEX NAME)



RN 890652-29-6 CAPLUS

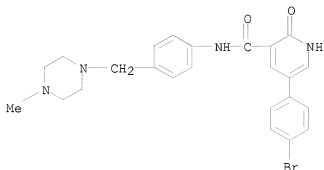
CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-1,2-dihydro-N-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 890652-33-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-bromophenyl)-1,2-dihydro-N-[4-[(4-methyl-1-

piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:49622 CAPLUS

DOCUMENT NUMBER: 144:304498

TITLE: Design and Synthesis of 5-Aryl-pyridone-carboxamides
as Inhibitors of Anaplastic Lymphoma Kinase

AUTHOR(S): Li, Rongshi; Xue, Liqun; Zhu, Tong; Jiang, Qin; Cui,
Xiaoli; Yan, Zheng; McGee, Danny; Wang, Jian; Gantia,
Vidyaasagar Reddy; Pickens, Jason C.; McGrath, Doug;
Chucholowski, Alexander; Morris, Stephan W.; Webb,
Thomas R.

CORPORATE SOURCE: ChemBridge Research Laboratories and ChemBridge
Corporation, San Diego, CA, 92127, USA

SOURCE: Journal of Medicinal Chemistry (2006), 49(3),
1006-1015

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:304498

AB Anaplastic lymphoma kinase (ALK) is a promising new target for therapy of
certain cancers such as anaplastic large-cell lymphoma (ALCL) and
inflammatory myofibroblastic tumor (IMT). The authors have identified a
series of novel pyridones as kinase inhibitors of ALK by application of a
stepwise process involving in vitro screening of a novel targeted library
followed by iterative template modification based on medicinal chemical
insights and computational ranking of virtual libraries. Using this
process, the authors discovered ALK-selective inhibitors with improved
potency and selectivity. Herein the details of the design process and
synthesis of these novel pyridones, along with their enzymic and
cell-based activity, are discussed.

IT 879490-51-4P 879490-52-5P 879490-53-6P

879490-54-7P 879490-56-9P 879490-57-0P

879490-58-1P 879490-60-5P 879490-61-6P

879490-70-7P

RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU
(Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study);

PREP (Preparation); USES (Uses)

(design and synthesis of 5-aryl-pyridone-carboxamides as inhibitors of

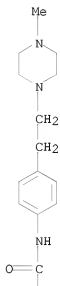
10/537,719

anaplastic lymphoma kinase in relation to antitumor activity)

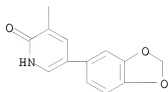
RN 879490-51-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[2-(4-methyl-1-piperazinyl)ethyl]phenyl]-2-oxo- (CA INDEX NAME)

PAGE 1-A



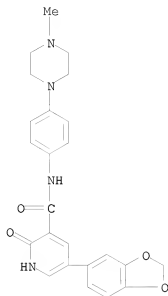
PAGE 2-A



RN 879490-52-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-(4-methyl-1-piperazinyl)phenyl]-2-oxo- (CA INDEX NAME)

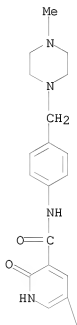
10/537,719



RN 879490-53-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)

PAGE 1-A



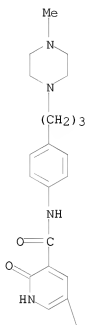
PAGE 2-A



RN 879490-54-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[3-(4-methyl-1-piperazinyl)propyl]phenyl]-2-oxo- (CA INDEX NAME)

PAGE 1-A

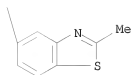
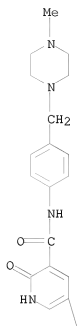


PAGE 2-A

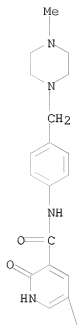


RN 879490-56-9 CAPLUS

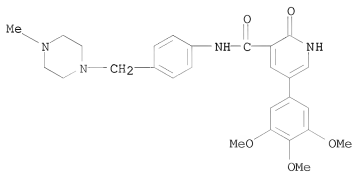
CN 3-Pyridinecarboxamide, 1,2-dihydro-5-(2-methyl-5-benzothiazolyl)-N-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)



RN 879490-57-0 CAPLUS
 CN 3-Pyridinecarboxamide, 1,2-dihydro-N-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo-5-(6-quinoxaliny)- (CA INDEX NAME)



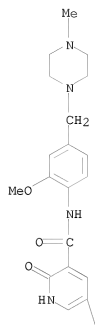
RN 879490-58-1 CAPLUS
 CN 3-Pyridinecarboxamide, 1,2-dihydro-N-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo-5-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



RN 879490-60-5 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[2-methoxy-4-

[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)

PAGE 1-A

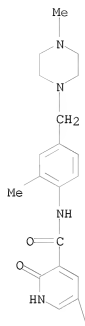


PAGE 2-A



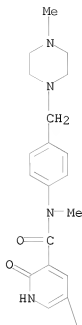
RN 879490-61-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-[(1,3-benzodioxol-5-yl)-1,2-dihydro-N-{2-methyl-4-[(4-methyl-1-piperazinyl)methyl]phenyl}-2-oxo- (CA INDEX NAME)

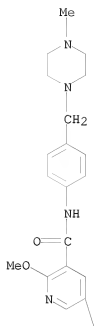


RN 879490-70-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-methyl-N-[4-
[(4-methyl-1-piperazinyl)methyl]phenyl]-2-oxo- (CA INDEX NAME)

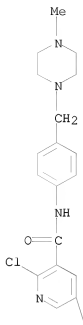


IT 879490-62-7P 879490-64-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (design and synthesis of 5-aryl-pyridone-carboxamides as inhibitors of
 anaplastic lymphoma kinase in relation to antitumor activity)
 RN 879490-62-7 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-2-methoxy-N-[4-[(4-methyl-
 1-piperazinyl)methyl]phenyl]- (CA INDEX NAME)



RN 879490-64-9 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-2-chloro-N-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)
 REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2004:696342 CAPLUS
 DOCUMENT NUMBER: 141:225302
 TITLE: Preparation of N-arylheterocycles as melanin concentrating hormone (MCH) antagonists.
 INVENTOR(S): Schwink, Lothar; Stengelin, Siegfried; Gossel, Matthias; Boehme, Thomas; Hessler, Gerhard; Stahl, Petra; Gretzke, Dirk
 PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany; Aventis Pharma GmbH
 SOURCE: PCT Int. Appl., 390 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

(unsatd.) tricyclic ring; m, n = 0-2], were prepared. Thus, N-[1-(4-aminophenyl)pyrrolidin-3-yl]piperidine was treated with carbonyldiimidazole and then with 4-(4-chlorophenyl)piperidine to give 4-(4-chlorophenyl)piperidine-1-carboxylic acid [4-[3-(acetylmethylamino)pyrrolidin-1-yl]phenyl]amide. The latter at 30 mg/kg orally in female NMRI mice reduced milk consumption by 64%.

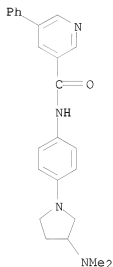
IT 748175-43-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-arylheterocycles as MCH antagonists)

RN 748175-43-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[4-[3-(dimethylamino)-1-pyrrolidinyl]phenyl]-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (40 CITINGS)
 REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:534176 CAPLUS

DOCUMENT NUMBER: 141:89017

TITLE: A preparation of nicotinamide-based tyrosine kinase inhibitors

INVENTOR(S): Burns, Christopher John; Kling, Marcel Robert

PATENT ASSIGNEE(S): Cytopia Pty. Ltd., Australia

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004054977	A1	20040701	WO 2003-AU1666	20031215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

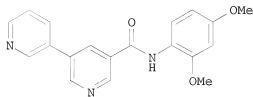
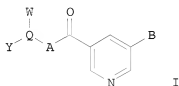
CA 2508171 A1 20040701 CA 2003-2508171 20031215
AU 2003291839 A1 20040709 AU 2003-291839 20031215
AU 2003291839 B2 20090122
EP 1569907 A1 20050907 EP 2003-767297 20031215

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006510737 T 20060330 JP 2005-502389 20031215
AU 20070060619 A1 20070315 US 2006-537719 20061011

PRIORITY APPLN. INFO.: AU 2002-953330 A 20021213
AU 2002-953385 A 20021217
US 2003-483400P P 20030626
WO 2003-AU1666 W 20031215

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:89017
GI



AB The invention relates to a preparation of nicotinamide derivs. of formula I [wherein: A is O, S, NH, or N-Cl-4alkyl; B is (un)substituted (hetero)aryl; Q is a bond or Cl-4alkyl; W is H, (un)substituted Cl-4alkyl or C2-6alkenyl; Y is H or (un)substituted (hetero)aryl], useful as kinase inhibitors. Compds. of formula I are useful in the treatment of tyrosine kinase-associated diseases such as carcinoma, cancer, and Alzheimer disease. For instance, pyridineamide derivative II at a concentration of 10 μ M inhibited

50% or greater of jak2, jak3, and fms enzyme activities.

IT 713521-00-7P 713521-04-1P 713521-09-6P
713521-16-5P 713521-18-7P 713521-30-3P
713521-42-7P 713521-73-4P 713521-78-9P

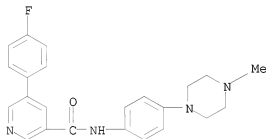
713521-84-7P	713521-87-0P	713521-98-3P
713522-15-7P	713522-18-0P	713522-21-5P
713522-27-1P	713522-30-6P	713522-39-5P
713522-56-6P	713522-58-8P	713522-61-3P
713522-64-6P	713522-68-0P	713522-70-4P
713522-72-6P	713522-86-2P	713522-95-3P
713522-97-5P	713522-98-6P	713522-99-7P
713523-00-3P	713523-28-5P	713523-34-3P
713523-37-6P	713523-38-7P	713523-39-8P
713523-47-8P	713523-54-7P	713523-55-8P
713523-56-9P	713523-58-1P	713523-59-2P
713523-60-5P	713523-61-6P	

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nicotinamide-based kinase inhibitors)

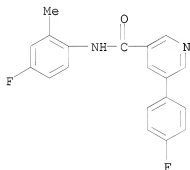
RN 713521-00-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[4-(4-methyl-1-piperazinyl)phenyl]- (CA INDEX NAME)



RN 713521-04-1 CAPLUS

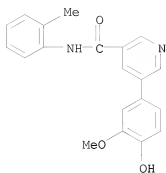
CN 3-Pyridinecarboxamide, N-(4-fluoro-2-methylphenyl)-5-(4-fluorophenyl)- (CA INDEX NAME)



RN 713521-09-6 CAPLUS

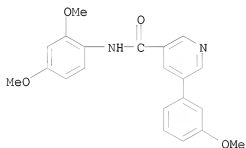
CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3-methoxyphenyl)-N-(2-methylphenyl)- (CA INDEX NAME)

10/537,719



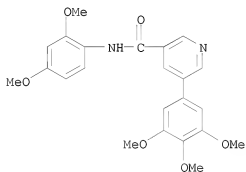
RN 713521-16-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,4-dimethoxyphenyl)-5-(3-methoxyphenyl)- (CA INDEX NAME)



RN 713521-18-7 CAPLUS

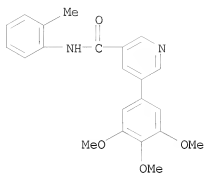
CN 3-Pyridinecarboxamide, N-(2,4-dimethoxyphenyl)-5-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



RN 713521-30-3 CAPLUS

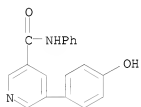
CN 3-Pyridinecarboxamide, N-(2-methylphenyl)-5-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

10/537,719



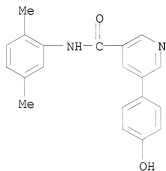
RN 713521-42-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-(3,4,5-trimethoxyphenyl)-N-phenyl- (CA INDEX NAME)



RN 713521-73-4 CAPLUS

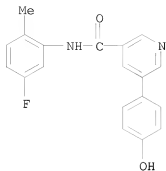
CN 3-Pyridinecarboxamide, N-(2,5-dimethylphenyl)-5-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 713521-78-9 CAPLUS

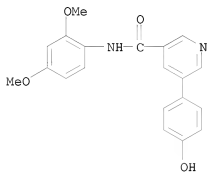
CN 3-Pyridinecarboxamide, N-(5-fluoro-2-methylphenyl)-5-(4-hydroxyphenyl)- (CA INDEX NAME)

10/537,719



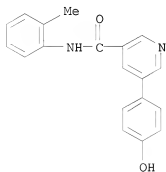
RN 713521-84-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,4-dimethoxyphenyl)-5-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 713521-87-0 CAPLUS

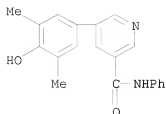
CN 3-Pyridinecarboxamide, 5-(4-hydroxyphenyl)-N-(2-methylphenyl)- (CA INDEX NAME)



RN 713521-98-3 CAPLUS

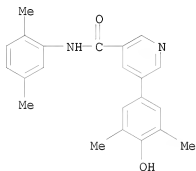
CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-phenyl- (CA INDEX NAME)

10/537,719



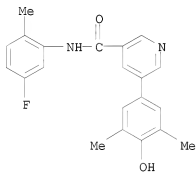
RN 713522-15-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,5-dimethylphenyl)-5-(4-hydroxy-3,5-dimethylphenyl)- (CA INDEX NAME)



RN 713522-18-0 CAPLUS

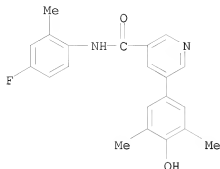
CN 3-Pyridinecarboxamide, N-(5-fluoro-2-methylphenyl)-5-(4-hydroxy-3,5-dimethylphenyl)- (CA INDEX NAME)



RN 713522-21-5 CAPLUS

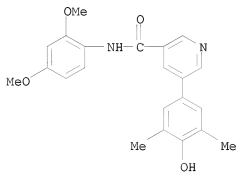
CN 3-Pyridinecarboxamide, N-(4-fluoro-2-methylphenyl)-5-(4-hydroxy-3,5-dimethylphenyl)- (CA INDEX NAME)

10/537,719



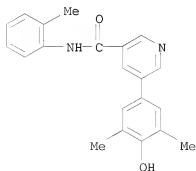
RN 713522-27-1 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,4-dimethoxyphenyl)-5-(4-hydroxy-3,5-dimethylphenyl)- (CA INDEX NAME)



RN 713522-30-6 CAPLUS

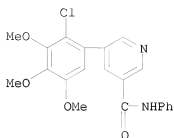
CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-(2-methylphenyl)- (CA INDEX NAME)



RN 713522-39-5 CAPLUS

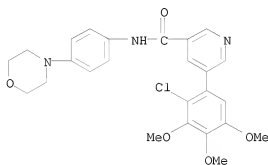
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-phenyl- (CA INDEX NAME)

10/537,719



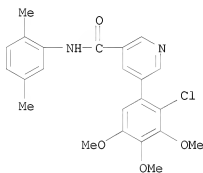
RN 713522-56-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)



RN 713522-58-8 CAPLUS

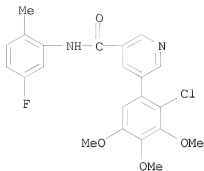
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(2,5-dimethylphenyl)- (CA INDEX NAME)



RN 713522-61-3 CAPLUS

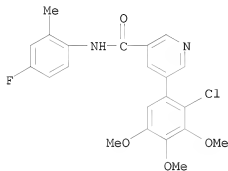
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(5-fluoro-2-methylphenyl)- (CA INDEX NAME)

10/537,719



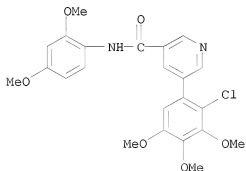
RN 713522-64-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(4-fluoro-2-methylphenyl)- (CA INDEX NAME)



RN 713522-68-0 CAPLUS

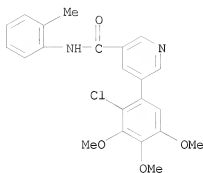
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(2,4-dimethoxyphenyl)- (CA INDEX NAME)



RN 713522-70-4 CAPLUS

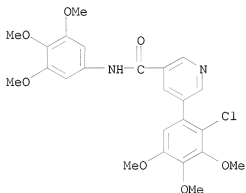
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(2-methylphenyl)- (CA INDEX NAME)

10/537,719



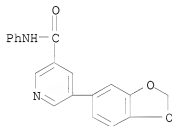
RN 713522-72-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



RN 713522-86-2 CAPLUS

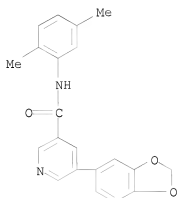
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-phenyl- (CA INDEX NAME)



RN 713522-95-3 CAPLUS

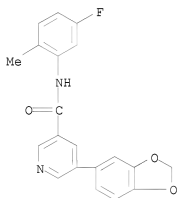
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-(2,5-dimethylphenyl)- (CA INDEX NAME)

10/537,719



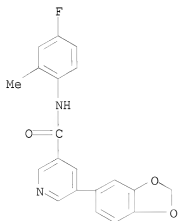
RN 713522-97-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-(5-fluoro-2-methylphenyl)- (CA INDEX NAME)



RN 713522-98-6 CAPLUS

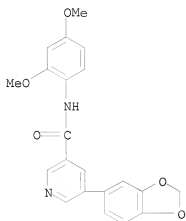
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-(4-fluoro-2-methylphenyl)- (CA INDEX NAME)



10/537,719

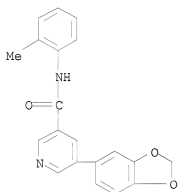
RN 713522-99-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-(2,4-dimethoxyphenyl)-
(CA INDEX NAME)



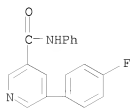
RN 713523-00-3 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-(2-methylphenyl)- (CA
INDEX NAME)



RN 713523-28-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-phenyl- (CA INDEX NAME)

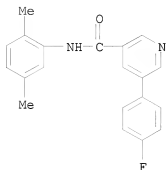


RN 713523-34-3 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,5-dimethylphenyl)-5-(4-fluorophenyl)- (CA

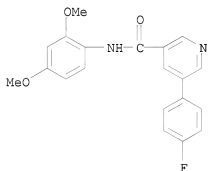
10/537,719

INDEX NAME)



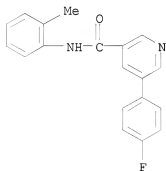
RN 713523-37-6 CAPLUS

CN 3-Pyridinecarboxamide, N-(2,4-dimethoxyphenyl)-5-(4-fluorophenyl)- (CA INDEX NAME)



RN 713523-38-7 CAPLUS

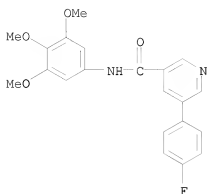
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-(2-methylphenyl)- (CA INDEX NAME)



RN 713523-39-8 CAPLUS

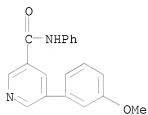
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)

10/537,719



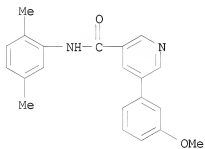
RN 713523-47-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-phenyl- (CA INDEX NAME)



RN 713523-54-7 CAPLUS

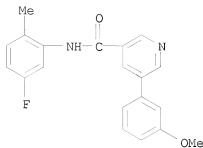
CN 3-Pyridinecarboxamide, N-(2,5-dimethylphenyl)-5-(3-methoxyphenyl)- (CA INDEX NAME)



RN 713523-55-8 CAPLUS

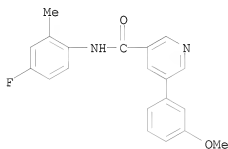
CN 3-Pyridinecarboxamide, N-(5-fluoro-2-methylphenyl)-5-(3-methoxyphenyl)- (CA INDEX NAME)

10/537,719



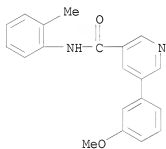
RN 713523-56-9 CAPLUS

CN 3-Pyridinecarboxamide, N-(4-fluoro-2-methylphenyl)-5-(3-methoxyphenyl)-
(CA INDEX NAME)



RN 713523-58-1 CAPLUS

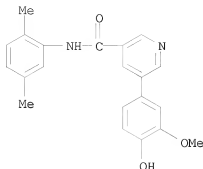
CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-(2-methylphenyl)- (CA INDEX
NAME)



RN 713523-59-2 CAPLUS

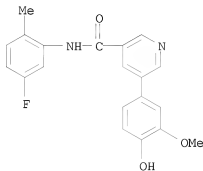
CN 3-Pyridinecarboxamide, N-(2,5-dimethylphenyl)-5-(4-hydroxy-3-methoxyphenyl)-
(CA INDEX NAME)

10/537,719



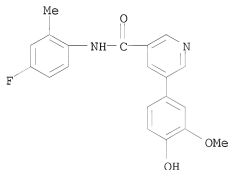
RN 713523-60-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(5-fluoro-2-methylphenyl)-5-(4-hydroxy-3-methoxyphenyl)- (CA INDEX NAME)



RN 713523-61-6 CAPLUS

CN 3-Pyridinecarboxamide, N-(4-fluoro-2-methylphenyl)-5-(4-hydroxy-3-methoxyphenyl)- (CA INDEX NAME)



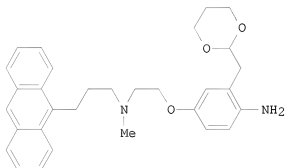
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:241203 CAPLUS

DOCUMENT NUMBER: 141:53787
 TITLE: A novel phase-switching protecting group for multi-step parallel solution phase synthesis
 AUTHOR(S): Li, Xin; Abell, Chris; Congreve, Miles S.; Warrington, Brian H.; Ladlow, Mark
 CORPORATE SOURCE: University Chemical Laboratory, GlaxoSmithKline
 SOURCE: Cambridge Technology Centre, Cambridge, CB2 1EW, UK
 Organic & Biomolecular Chemistry (2004), 2(7), 989-998
 CODEN: OBCRAK; ISSN: 1477-0520
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:53787
 GI



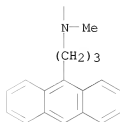
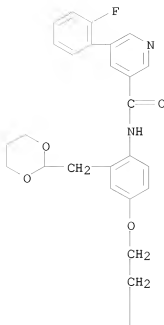
I

AB A new phase-tag I which facilitates the parallel solution phase synthesis of carboxylic acids, esters, and carboxamides is reported. The new phase tag assists compound purification by enabling the selective resin capture of reaction products in either a reversible pH dependent manner (solid-phase extraction), or irreversibly in a Diels-Alder reaction.

IT 705961-69-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (development of bifunctional tertiary amine phase-tags with demonstrated applications to solution phase synthesis of carboxylic acids, esters and carboxamides)

RN 705961-69-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[4-[2-[[3-(9-anthracenyl)propyl]methylamino]ethoxy]-2-(1,3-dioxan-2-ylmethyl)phenyl]-5-(2-fluorophenyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

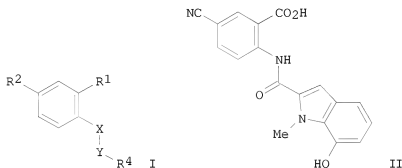
L4 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:182843 CAPLUS
DOCUMENT NUMBER: 140:235498
TITLE: Preparation of antibacterial benzoic acid derivatives
INVENTOR(S): Thorarensen, Atli; Ruble, Craig J.; Fisher, Jed F.;
Romero, Donna L.; Beauchamp, Thomas J.; Northuis, Jill
M.
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 500 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018428	A1	20040304	WO 2003-US24796	20030822
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20040110802	A1	20040610	US 2003-645802	20030820
AU 2003264005	A1	20040311	AU 2003-264005	20030822
PRIORITY APPLN. INFO.:			US 2002-405429P	P 20020823
			US 2002-430592P	P 20021203
			WO 2003-US24796	W 20030822

OTHER SOURCE(S): MARPAT 140:235498

GI



AB Title compds. I [X = NH; Y = CO, CS, C(NCN), or X and Y together form an alkene or cycloalkyl; R¹ = CO₂H; R² = electron withdrawing group; R⁴ = (un)substituted heterocycle, provided that the heterocycle is not simultaneously substituted with a sulfonamide and a urea or thiourea and their pharmaceutically acceptable salts are prepared and disclosed as antibacterial agents. Thus, e.g., II was prepared via conversion of 7-(benzyloxy)-1-methyl-1H-indole-2-carboxylic acid (preparation given) to the acid chloride which is reacted with tert-butyl-2-amino-5-cyanobenzoate then subjected to hydrolysis. For compds. of the invention, the min. inhibitory concentration was determined and found to correspond to a range of 0.0075 -

>128 µg/mL. The invention provides antimicrobial agents and methods of using the agents for sterilization, sanitation, antiseptics, disinfection, and treatment of infections in mammals.

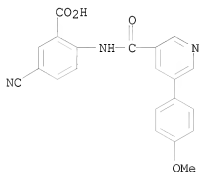
IT 668976-09-8P 668976-13-4P 668976-14-5P
 668976-15-6P 668976-16-7P 668976-69-0P
 668976-70-3P 668976-72-5P 668976-80-5P

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological

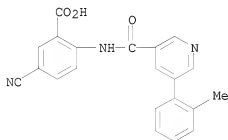
study); PREP (Preparation); USES (Uses)

(preparation of benzoic acid derivs. as antibacterial agents)

RN 668976-09-8 CAPLUS

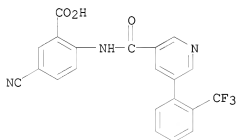
CN Benzoic acid, 5-cyano-2-[[[5-(4-methoxyphenyl)-3-pyridinyl]carbonyl]amino]-
(CA INDEX NAME)

RN 668976-13-4 CAPLUS

CN Benzoic acid, 5-cyano-2-[[[5-(2-methylphenyl)-3-pyridinyl]carbonyl]amino]-
(CA INDEX NAME)

RN 668976-14-5 CAPLUS

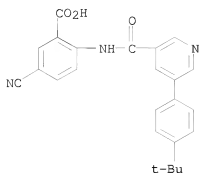
CN Benzoic acid, 5-cyano-2-[[[5-[2-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]amino]- (CA INDEX NAME)



RN 668976-15-6 CAPLUS

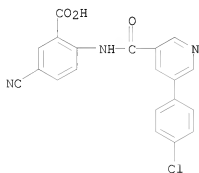
CN Benzoic acid, 5-cyano-2-[[[5-[4-(1,1-dimethylethyl)phenyl]-3-pyridinyl]carbonyl]amino]- (CA INDEX NAME)

10/537,719



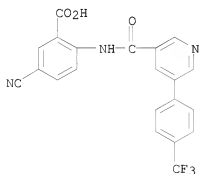
RN 668976-16-7 CAPLUS

CN Benzoic acid, 2-[[[5-(4-chlorophenyl)-3-pyridinyl]carbonyl]amino]-5-cyano-
(CA INDEX NAME)



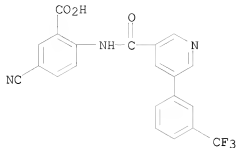
RN 668976-69-0 CAPLUS

CN Benzoic acid, 5-cyano-2-[[[5-[4-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]amino]- (CA INDEX NAME)

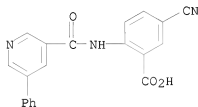


RN 668976-70-3 CAPLUS

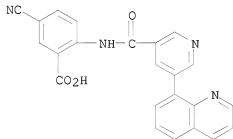
CN Benzoic acid, 5-cyano-2-[[[5-[3-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]amino]- (CA INDEX NAME)



RN 668976-72-5 CAPLUS
 CN Benzoic acid, 5-cyano-2-[(5-phenyl-3-pyridinyl)carbonyl]amino)- (CA INDEX NAME)



RN 668976-80-5 CAPLUS
 CN Benzoic acid, 5-cyano-2-[[[5-(8-quinolinyl)-3-pyridinyl]carbonyl]amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS INCLUDE IN THE RE FORMAT

L4 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:20650 CAPLUS

DOCUMENT NUMBER: 140:77035

TITLE: Preparation of (4-hydroxypiperidin-1-yl)arylcarboxamides as interleukin-4 production inhibitors for treatment of allergic diseases

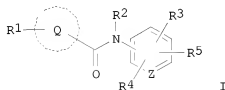
INVENTOR(S): Naito, Youichiro; Ushio, Hiroyuki; Hoshino, Yukio; Kagoshima, Masahiko; Oshita, Kouichi; Kataoka, Hirotoshi; Chiba, Kenji

PATENT ASSIGNEE(S): Mitsubishi Pharma Corporation, Japan

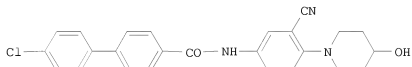
SOURCE: PCT Int. Appl., 85 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002948	A1	20040108	WO 2002-JP6606	20020628
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002313309	A1	20040119	AU 2002-313309	20020628
PRIORITY APPLN. INFO.:			WO 2002-JP6606	A 20020628
OTHER SOURCE(S):	MARPAT 140:77035			

GI



I



II

AB The title arylcarboxamides I [wherein R1 = halo, alkyl, alkoxy, NO2, OH, (un)substituted amino, aryl, aralkyl, heteroaryl, heteroaralkyl, cycloalkyl, or cycloalkenyl; ring Q = (un)substituted benzene, cyclohexane, pyridine, pyrazine, pyridazine, furan, thiophene, oxazole, thiazole, or imidazole; R2 = H, alkyl, hydroxyalkyl, acyloxyalkyl, hydroxycarbonylalkyl, alkoxy carbonylalkyl, or (un)substituted aminoalkyl; Z = CH or N; R3 = halo, CN, NO2, NH2, alkyl, alkoxy, CO2H, alkoxy carbonyl, carbamoyl, alkenyl, alkynyl, or haloalkyl; R4 = H, halo, CN, or NO2; R5 = alkyl, hydroxyalkyl, hydroxycarbonylalkyl, alkoxy, haloalkoxy, aryloxy, cycloalkyloxy, hydroxyalkoxy, hydroxycarbonylalkoxy, SH, alkylthio, hydroxyalkylthio, hydroxycarbonylalkylthio, (un)substituted aminoalkyl, aminoalkoxy, aminoalkylthio, OH, or NH2] or pharmaceutically acceptable salts thereof are prepared. For example, the compound II was prepared in a multi-step synthesis. II showed IC50 of 0.049 μ M against interleukin-4 production in rat. The compds. I are highly effective in inhibiting interleukin-4 production in type-2 helper T cells, and are useful for the treatment of allergic diseases (no data). Formulations containing I as an

active ingredient were also described.

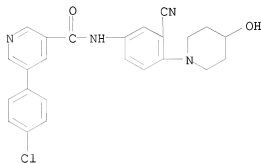
IT 476342-69-5P 640272-84-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of (hydroxypiperidinyl)arylcarboxamides for treatment of allergic diseases)

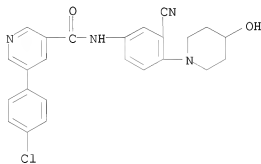
RN 476342-69-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-N-[3-cyano-4-(4-hydroxy-1-piperidinyl)phenyl]- (CA INDEX NAME)



RN 640272-84-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-N-[3-cyano-4-(4-hydroxy-1-piperidinyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:950057 CAPLUS

DOCUMENT NUMBER: 140:16647

TITLE: Preparation of 2-aminopyridine-3-carboxamides as remedies for angiogenesis mediated diseases

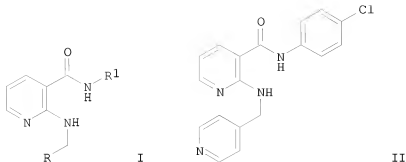
INVENTOR(S): Askew, Benny; Adams, Jeffrey; Booker, Shon; Chen, Guoqing; DiPietro, Lucian V.; Elbaum, Daniel; Germain, Julie; Geuns-Meyer, Stephanie D.; Habgood, Gregory J.;

Handley, Michael; Huang, Qi; Kim, Tae-seong; Li, Aiwon; Nishimura, Nobuko; Nomak, Rana; Patel, Vinod F.; Riahi, Babak; Kim, Joseph L.; Xi, Ning; Yang, Kevin; Yuan, Chester Chenguang
 Amgen Inc., USA
 U.S. Pat. Appl. Publ., 252 pp., Cont.-in-part of U.S. Ser. No. 46,681.
 CODEN: USXXCO
 Patent
 English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030225106	A1	20031204	US 2002-197974	20020717
US 6878714	B2	20050412		
US 20030125339	A1	20030703	US 2002-46681	20020110
US 6995162	B2	20060207		
AT 361288	T	20070515	AT 2002-717325	20020111
PT 1358184	E	20070531	PT 2002-717325	20020111
EP 1798230	A1	20070620	EP 2007-3413	20020111
R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR, AL, LT, LV, MK, RO, SI				
ES 2284849	T3	20071116	ES 2002-717325	20020111
ZA 2003005197	A	20040319	ZA 2003-5197	20030704
CA 2492100	A1	20040122	CA 2003-2492100	20030715
WO 2004007458	A1	20040122	WO 2003-US22417	20030715
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003252011	A1	20040202	AU 2003-252011	20030715
AU 2003252011	B2	20071122		
EP 1537084	A1	20050608	EP 2003-764794	20030715
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006501195	T	20060112	JP 2004-521959	20030715
BG 108012	A	20041130	BG 2003-108012	20030721
US 20050261313	A1	20051124	US 2004-14184	20041215
MX 2005000584	A	20050419	MX 2005-584	20050113
US 20060040956	A1	20060223	US 2005-234713	20050923
JP 2009286777	A	20091210	JP 2009-97317	20090413
PRIORITY APPLN. INFO.:				
			US 2001-261339P	P 20010112
			US 2001-323764P	P 20010919
			US 2002-46681	A2 20020110
			EP 2002-717325	A3 20020111
			JP 2002-565984	A3 20020111
			US 2002-197974	A 20020717
			WO 2003-US22417	W 20030715

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 140:16647

GI



AB The title compds. [I; R = (un)substituted 4-pyridyl, 2-pyridyl, 4-pyrimidinyl, 4-quinolyl, etc.; R1 = (un)substituted aryl, cycloalkyl, 5-6 membered heteroaryl, 9-10 membered bicyclic and 11-14 membered tricyclic heterocyclyl], which are effective for prophylaxis and treatment of diseases and other maladies or conditions involving, cancer and the like, were prepared. Thus, the title compound II was prepared from 2-aminonicotinic acid, 4-chloroaniline, and 4-pyridinecarboxaldehyde. The compds. I showed inhibition of KDR kinase at < 50 μ M. Many compds. I inhibited VEGF-stimulated HUVEC proliferation at a level below 50 nM. Pharmaceutical composition comprising the compound I is claimed.

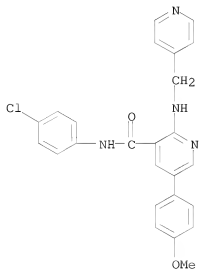
IT 453561-26-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-aminopyridine-3-carboxamides for treating angiogenesis mediated diseases)

RN 453561-26-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(4-chlorophenyl)-5-(4-methoxyphenyl)-2-[(4-pyridinylmethyl)amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 7

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

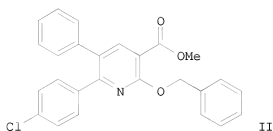
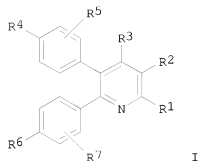
REFERENCE COUNT: 39

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:796416 CAPLUS
 DOCUMENT NUMBER: 139:307686
 TITLE: Preparation of 2,3-diphenylpyridines as cannabinoid-1
 receptor antagonists and inverse agonists
 INVENTOR(S): Finke, Paul E.; Meurer, Laura C.; Debenham, John S.;
 Toupenec, Richard B.; Walsh, Thomas F.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 211 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082191	A2	20031009	WO 2003-US9005	20030324
WO 2003082191	A3	20040115		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2479744	A1	20031009	CA 2003-2479744	20030324
AU 2003225964	A1	20031013	AU 2003-225964	20030324
AU 2003225964	B2	20081120		
EP 1492784	A2	20050105	EP 2003-745578	20030324
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005531520	T	20051020	JP 2003-579734	20030324
US 20050182103	A1	20050818	US 2004-508043	20040917
US 7271266	B2	20070918		
PRIORITY APPLN. INFO.:			US 2002-368334P	P 20020328
			WO 2003-US9005	W 20030324
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):	MARPAT 139:307686			
GI				



AB Title compds. I [wherein R1 = H, halo, CN, or (un)substituted alkyl, heterocycloalkyl(alkyl), heteroaryl, (hetero)arylalkyl, acyl, carboxy, (thio)ether, amino, carbamoyl, acylamino, carboxyamino, or ureido; R2 = H, CN, carboxy, halo, NO2, CF3, or (un)substituted carbamoyl; provided that R1 and R2 are not both H; R3 = H, CF3, or (un)substituted (cyclo)alkyl; R4-R7 = independently H, halo, amino, carboxy, alkyl, alkoxy, aryl(alkyl), OH, CF3, alkanoyloxy, or carbamoyloxy; provided that R6 and R7 are not both H; and pharmaceutically acceptable salts thereof] were prepared as cannabinoid-1 (CB1) receptor antagonists and/or inverse agonists (no data). For example, benzyl 4-chlorophenyl ketone was condensed with DMF dimethylacetel in DMF to give 3-(dimethylamino)-1-(4-chlorophenyl)-2-phenylprop-2-en-1-one. Cyclocondensation of the vinyl ketone with cyanoacetamide using NaH in DMF and MeOH provided the 3-cyano-2-pyridone. Conversion of the nitrile to the carboxylic acid with 50% H2SO4, followed by esterification using HCl in MeOH gave Me 6-(4-chlorophenyl)-5-phenyl-2-oxo-1,2-dihydropyridine-3-carboxylate. O-alkylation of the pyridone with benzyl bromide in the presence of Cs2CO3 in DMF afforded the title 2,3-diphenylpyridine II. Compds. of the invention and their pharmaceutical compns. serve as centrally acting drugs for the treatment, prevention, and suppression of diseases mediated by the CB1 receptor, such as psychosis, memory deficits, cognitive disorders, migraine, neuropathy, neuro-inflammatory disorders including multiple sclerosis and Guillain-Barre syndrome, the inflammatory sequelae of viral encephalitis, cerebral vascular accidents, and head trauma, anxiety disorders, stress, epilepsy, Parkinson's disease, movement disorders, and schizophrenia (no data). I are also useful for the treatment of substance abuse disorders, obesity or eating disorders, asthma, constipation, chronic intestinal pseudo-obstruction, and cirrhosis of the liver (no data).

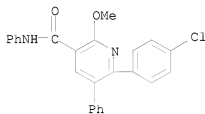
II 611218-06-5P, N-Phenyl-2-methoxy-6-(4-chlorophenyl)-5-phenylpyridine-3-carboxamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(CB1 modulator; preparation of diphenylpyridines as CB1 antagonists and inverse agonists for treatment of eating disorders and other CB1 mediated diseases)

RN 611218-06-5 CAPLUS

CN 3-Pyridinecarboxamide, 6-(4-chlorophenyl)-2-methoxy-N,5-diphenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:900790 CAPLUS

DOCUMENT NUMBER: 137:384757

TITLE: Preparation of
 N-[(hydroxypiperidinyl)phenyl]benzamides as
 pharmaceuticals for treatment of atopic dermatitis,
 asthma, and allergic rhinitis

INVENTOR(S): Naito, Yoichiro; Ushio, Hiroyuki; Hoshino, Yukio;
 Kakoshima, Masahiko; Oshita, Koichi; Kataoka,
 Hirotooshi; Chiba, Kenji

PATENT ASSIGNEE(S): Mitsubishi Pharma Corporation, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

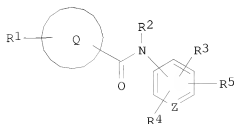
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

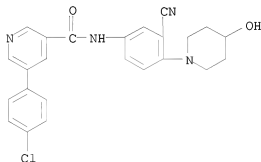
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002338537	A	20021127	JP 2001-146915	20010516
PRIORITY APPLN. INFO.:			JP 2001-146915	20010516
OTHER SOURCE(S):	MARPAT	137:384757		

GI



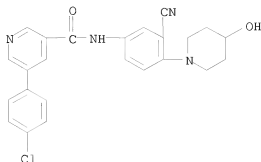
I

- AB Amides I [R1 = halo, alkyl, alkoxy, NO2, amino, etc.; ring Q = (un)substituted benzene, cyclohexane, heterocyclic aromatic ring; R2 = H, alkyl, hydroxyalkyl, acyloxyalkyl, aminoalkyl, etc.; Z = CH, N; R3 = halo, cyano, NO2, amino, alkyl, alkoxy, CO2H, etc.; R4 = H, halo, cyano, NO2; R5 = alkyl, hydroxyalkyl, hydroxycarbonylalkyl, substituted aminoalkyl, OH, alkoxy, etc.] or their pharmaceutically acceptable salts are prepared. The compds. are useful for inhibitors of interleukin 4 production from type 2 helper T cell. 5-Amino-2-(4-hydroxypiperidin-1-yl)benzonitrile (5 g) was reacted with 4-iodobenzoic acid in the presence of 1-hydroxybenzotriazole monohydrate and 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride in DMF at room temperature for 2 days to give 9.3 g N-[3-cyano-4-(4-hydroxypiperidin-1-yl)phenyl]-4-benzamide. The compds. controlled ovalbumin-induced edema in mice.
- IT 476342-70-8P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of [(hydroxypiperidinyl)phenyl]benzamides as pharmaceuticals for treatment of atopic dermatitis, asthma, and allergic rhinitis)
- RN 476342-70-8 CAPLUS
- CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-N-[3-cyano-4-(4-hydroxy-1-piperidinyl)phenyl]-, hydrochloride (1:?) (CA INDEX NAME)



● x HCl

- IT 476342-69-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of [(hydroxypiperidinyl)phenyl]benzamides as pharmaceuticals for treatment of atopic dermatitis, asthma, and allergic rhinitis)
- RN 476342-69-5 CAPLUS
- CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-N-[3-cyano-4-(4-hydroxy-1-piperidinyl)phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L4 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:658116 CAPLUS

DOCUMENT NUMBER: 137:201332

TITLE: Preparation of heterocyclylalkylamine derivatives as
remedies for angiogenesis mediated diseases

INVENTOR(S): Chen, Guoqing; Adams, Jeffrey; Bemis, Jean; Booker,
Shon; Cai, Guolin; Croghan, Michael; DiPietro, Lucian;
Dominguez, Celia; Elbaum, Daniel; Germain, Julie;
Geuns-Meyer, Stephanie; Handley, Michael; Huang, Qi;
Kim, Joseph L.; Kim, Tae-seong; Kiselyov, Alexander;
Ouyang, Xiaohu; Patel, Vinod F.; Smith, Leon M.; Stec,
Markian; Tasker, Andrew; Xi, Ning; Xu, Shimin; Yuan,
Chester Chenguang

PATENT ASSIGNEE(S): Amgen Inc., USA

SOURCE: PCT Int. Appl., 502 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

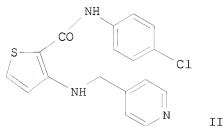
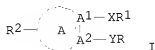
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066470	A1	20020829	WO 2002-US743	20020111
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20030125339	A1	20030703	US 2002-46681	20020110
US 6995162	B2	20060207		
CA 2434277	A1	20020829	CA 2002-2434277	20020111
CA 2434277	C	20090602		
AU 2002248340	A1	20020904	AU 2002-248340	20020111
AU 2002248340	B2	20051103		
BR 2002006435	A	20030923	BR 2002-6435	20020111
EP 1358184	A1	20031105	EP 2002-717325	20020111
EP 1358184	B1	20070502		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

HU 2003002598	A2	20031128	HU 2003-2598	20020111
EE 200300324	A	20031215	EE 2003-324	20020111
JP 2004531484	T	20041014	JP 2002-565984	20020111
NZ 526868	A	20050429	NZ 2002-526868	20020111
CN 1671700	A	20050921	CN 2002-806202	20020111
CN 1313464	C	20070502		
AT 361288	T	20070515	AT 2002-717325	20020111
PT 1358184	E	20070531	PT 2002-717325	20020111
EP 1798230	A1	20070620	EP 2007-3413	20020111
R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC,				
NL, PT, SE, TR, AL, LT, LV, MK, RO, SI				
ES 2284849	T3	20071116	ES 2002-717325	20020111
IL 156751	A	20090504	IL 2002-156751	20020111
ZA 2003005197	A	20040319	ZA 2003-5197	20030704
MX 2003006179	A	20031211	MX 2003-6179	20030710
NO 2003003181	A	20030911	NO 2003-3181	20030711
IN 2003CN01070	A	20050422	IN 2003-CN1070	20030711
KR 848429	B1	20080728	KR 2003-709274	20030711
BG 108012	A	20041130	BG 2003-108012	20030721
HK 1060131	A1	20071012	HK 2004-103164	20040505
US 20060040956	A1	20060223	US 2005-234713	20050923
AU 2006200437	A1	20060223	AU 2006-200437	20060201
AU 2006200437	B2	20091112		
IN 2008CN03234	A	20090306	IN 2008-CN3234	20080623
JP 2009286777	A	20091210	JP 2009-97317	20090413
PRIORITY APPLN. INFO.:				
			US 2001-261339P	P 20010112
			US 2001-323764P	P 20010919
			US 2002-46681	A 20020110
			AU 2002-248340	A3 20020111
			EP 2002-717325	A3 20020111
			JP 2002-565984	A3 20020111
			WO 2002-US743	W 20020111
			IN 2003-CN1070	A3 20030711

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 137:201332
 GI



AB Title compds. [I; A1, A2 independently = C, N; A = 5-, or 6-membered partially saturated heterocyclyl, 5-, or 6-membered heterocyclyl, 9-, or 10-membered fused partially saturated heterocyclyl, 9-, 10-, or 11-membered fused heteroaryl, naphthyl, 4-, 5-, or 6-membered cycloalkenyl; X = C:ZNR3, C:ZN(R3)R4; Z = O, S; Y = N:CH, NR5(CR6R7), R8N(R5)(CR6R7), NR5(CR6R7)R8; R = 5-, or 6-membered (un)substituted heterocyclyl, 9-, 10-, 11-membered heterocyclyl; R1 = 6-10-membered (un)substituted aryl, 5-, or 6-membered (un)substituted heterocyclyl, 9-11 membered (un)substituted fused heterocyclyl, cycloalkyl, cycloalkenyl; R2 = H, halo, oxo, SH, COOH, CHO; R3 = H, alkyl, 5-, or 6-membered heterocyclyl; R4 = alkylenyl, alkenylenyl, alkynylenyl; R5 = H, alkyl, aralkyl, C6H5; R6, R7 independently = H, halo, CN, alkyl; R6R7 = cycloalkyl; R8 = alkylenyl; etc.] are prepared and are effective for prophylaxis and treatment of diseases, such as angiogenesis mediated diseases. The invention encompasses novel compds., analogs, prodrugs and pharmaceutically acceptable derivs. thereof, pharmaceutical compns. and methods for prophylaxis and treatment of diseases and other maladies or conditions involving, cancer and the like. The subject invention also relates to processes for making such compds. as well as to intermediates useful in such processes. Thus, the title compound II was prepared from Me 3-amino-2-thiophenecarboxylate, 4-chloroaniline, and 4-pyridine carboxaldehyde via coupling reaction.

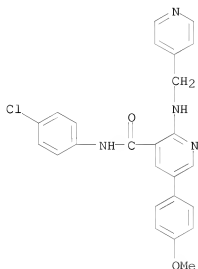
IT 453561-26-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclylalkylamine derivs. as remedies for angiogenesis mediated diseases)

RN 453561-26-7 CAPLUS

CN 3-Pyridinecarboxamide, N-(4-chlorophenyl)-5-(4-methoxyphenyl)-2-[(4-pyridinylmethyl)amino]- (CA INDEX NAME)



OS.CITING REF COUNT: 17

THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

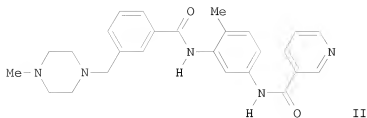
REFERENCE COUNT: 19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2000:227634 CAPLUS
 DOCUMENT NUMBER: 132:265091
 TITLE: Preparation of N-(benzamido-phenyl)pyridinecarboxamides and analogs as cytokine production inhibitors
 INVENTOR(S): Brown, Dearg Sutherland; Brown, George Robert
 PATENT ASSIGNEE(S): Zeneca Limited, UK
 SOURCE: PCT Int. Appl., 138 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018738	A1	20000406	WO 1999-GB3144	19990921
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2340454	A1	20000406	CA 1999-2340454	19990921
AU 9961034	A	20000417	AU 1999-61034	19990921
AU 761361	B2	20030605		
BR 9913947	A	20010612	BR 1999-13947	19990921
EP 1115707	A1	20010718	EP 1999-947653	19990921
EP 1115707	B1	20031112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200100840	T2	20011022	TR 2001-840	19990921
HU 2001004060	A2	20020328	HU 2001-4060	19990921
HU 2001004060	A3	20020429		
JP 2002525358	T	20020813	JP 2000-572198	19990921
NZ 509836	A	20030630	NZ 1999-509836	19990921
AT 254105	T	20031115	AT 1999-947653	19990921
RU 2219171	C2	20031220	RU 2001-111320	19990921
CN 1146542	C	20040421	CN 1999-811296	19990921
PT 1115707	E	20040430	PT 1999-947653	19990921
ES 2211172	T3	20040701	ES 1999-947653	19990921
IL 141979	A	20060820	IL 1999-141979	19990921
SK 285520	B6	20070301	SK 2001-421	19990921
IN 2001MN00193	A	20050304	IN 2001-MN193	20010220
MX 2001002385	A	20010613	MX 2001-2385	20010306
ZA 2001002185	A	20020618	ZA 2001-2185	20010315
NO 2001001492	A	20010523	NO 2001-1492	20010323
NO 318800	B1	20050509		
US 6455520	B1	20020924	US 2001-787882	20010323
HK 1038556	A1	20040430	HK 2001-107980	20011113
PRIORITY APPLN. INFO.:			GB 1998-20770	A 19980925
			GB 1998-26938	A 19981209
			GB 1999-5969	A 19990317
			WO 1999-GB3144	W 19990921

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 132:265091
 GI



AB R4Z4ZCONHZ1NHCOZ2R2 [I; R2 = Z3R3; R3 = (un)substituted heteroaryl; R4 = (di)(alkyl)amino(alkyl), heterocyclyl(alkyl), heteroaryl(alkyl), etc.; Z = (un)substituted phenylene; Z1= 2-halo- or -alkyl-1,5-phenylene; Z2 = bond or (CH2)1-4; Z3 = bond, O, NH, alkyleneoxy, alkyleneamino, etc.; Z4 = bond, alkylene(oxy), alkyleneamino, etc.] were prepared as p38 kinase inhibitors. Thus, 3-(ClCH2)C6H4COC1 was amidated by 2-methyl-5-nitroaniline and the product amidated by 1-methylpiperazine to give, after reduction and pyridine-3-carbonyl chloride amidation, title compound

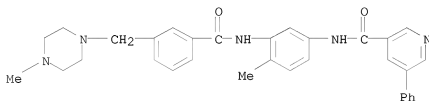
II. Data for biol. activity of I were given.

IT 263269-09-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); B1OL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-(benzamido)phenylpyridinecarboxamides and analogs as cytokine production inhibitors)

RN 263269-09-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[4-methyl-3-[[3-[(4-methyl-1-piperazinyl)methyl]benzoyl]amino]phenyl]-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:995215 CAPLUS

DOCUMENT NUMBER: 124:117098

ORIGINAL REFERENCE NO.: 124:21809a,21812a

TITLE: Preparation of pyridylanilide derivatives as fungicides

INVENTOR(S): Riordan, Peter Dominic; Boddy, Ian Kenneth; Osbourn, Susan Elisabeth

PATENT ASSIGNEE(S): Agrevo UK Ltd., UK

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

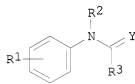
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9525723	A1	19950928	WO 1995-GB570	19950316
W: AU, BG, BR, CA, CN, CZ, FI, HU, JP, KR, KZ, MX, NO, NZ, PL, RO, RU, SD, SK, UA, US				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9518981	A	19951009	AU 1995-18981	19950316
AU 688473	B2	19980312		
EP 750611	A1	19970102	EP 1995-911403	19950316
EP 750611	B1	19980708		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN 1143954	A	19970226	CN 1995-192131	19950316
HU 74778	A2	19970228	HU 1996-2547	19950316
HU 214292	B	19980302		
BR 9507105	A	19970909	BR 1995-7105	19950316
JP 09510471	T	19971021	JP 1995-524455	19950316
AT 168099	T	19980715	AT 1995-911403	19950316
ZA 9502205	A	19951031	ZA 1995-2205	19950317
US 5756524	A	19980526	US 1996-714149	19960918
PRIORITY APPLN. INFO.:			GB 1994-5347	A 19940318
			WO 1995-GB570	W 19950316

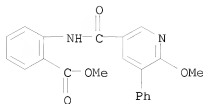
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 124:117098

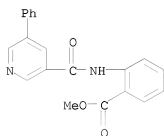
GI



- AB Title compds. I [X = O, S; R1, R2 = H, alkyl, cycloalkyl, alkenyl, etc.; R3 = (substituted) pyridyl, pyrimidinyl, pyrazinyl, etc.] were prepared. Condensation of 6-methoxynicotinoyl chloride with Me anthranilate in the presence of Et3N in THF afforded I (X = O; R1 = R2 = H; R3 = 6-methoxy-3-pyridyl) which showed activity against barley powdery mildew, rice blast and apple scab at ≤ 500 ppm.
- IT 173056-43-4P 173057-56-2P 173058-11-2P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of anilide derivs. as fungicides)
- RN 173056-43-4 CAPLUS
- CN Benzoic acid, 2-[[6-methoxy-5-phenyl-3-pyridinyl]carbonyl]amino]-, methyl ester (CA INDEX NAME)

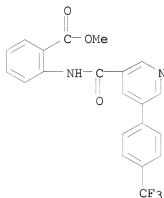


RN 173057-56-2 CAPLUS

CN Benzoic acid, 2-[[5-phenyl-3-pyridinyl]carbonyl]amino]-, methyl ester
(CA INDEX NAME)

RN 173058-11-2 CAPLUS

CN Benzoic acid, 2-[[5-[4-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]amino]-, methyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS RECORD (31 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989:154162 CAPLUS

DOCUMENT NUMBER: 110:154162

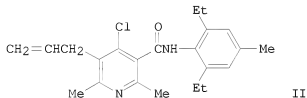
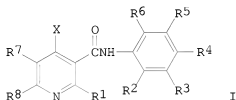
ORIGINAL REFERENCE NO.: 110:25491a, 25494a

TITLE: 4-Halopyridine-3-carboxamide derivatives and their herbicidal compositions

INVENTOR(S): Yagihara, Hiroshi; Goto, Yukihiisa; Masamoto, Kazuhisa; Morishima, Yasuo; Osabe, Hirokazu

PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 32 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 292990	A1	19881130	EP 1988-108501	19880527
EP 292990	B1	19950201		
R: DE, FR, GB				
US 4978385	A	19901218	US 1988-199187	19880526
JP 01207275	A	19890821	JP 1988-131265	19880527
JP 2557468	B2	19961127		
CA 1320488	C	19930720	CA 1988-567874	19880527
PRIORITY APPLN. INFO.:			JP 1987-131696	A 19870529
			JP 1987-262333	A 19871016
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):			CASREACT 110:154162; MARPAT 110:154162	
GI				

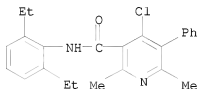


- AB Title compds. I [R₁ = C₁-11 alkyl, alkenyl, alkynyl, cycloalkyl, alkoxyalkyl, alkylthioalkyl, haloalkyl, 5- or 6-membered heterocyclyl, (un)substituted Ph or aralkyl; R₂-R₆ = H, halo, cyano, NO₂, amino, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO₂H, alkoxycarbonyl; R₇ = H, halo, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, (un)substituted Ph or aralkyl; R₈ = as given for R₁, or R₇R₈ = (CH₂)_m; m = 3, 4; X = halo] and their 1-oxides and salts are prepared as herbicides.
- 5-Allyl-N-(2,6-diethyl-4-methylphenyl)-1,4-dihydro-2,6-dimethyl-4-oxo-3-pyridinecarboxamide was refluxed in excess POCl₃ for 1 h to give allylchloro(diethylmethylphenyl)dimethylpyridinecarboxamide II. Addition of 50 weight parts II to 200 parts carrier containing talc 50, bentonite 25, Solpale-9047, 2, and Solpale-5039, 3 parts gave a wettable powder. As a 20-ppm aqueous dispersion applied to seedlings in a lab dish, II completely inhibited *Oryza sativa*, *Echinochloa crus-galli*, and *Raphanus sativus*.
- IT 119766-14-2P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 119766-14-2 CAPLUS

CN 3-Pyridinecarboxamide, 4-chloro-N-(2,6-diethylphenyl)-2,6-dimethyl-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989:38902 CAPLUS

DOCUMENT NUMBER: 110:38902

ORIGINAL REFERENCE NO.: 110:6479a,6482a

TITLE: Preparation of 4-hydroxy-3-pyridinecarboxamides as antiinflammatory and antirheumatic agents
Clemence, Francois; Le Martret, Odile; Delevallee, Francoise

INVENTOR(S): Roussel-UCLAF, Fr.

PATENT ASSIGNEE(S): Ger. Offen., 17 pp.

SOURCE: CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

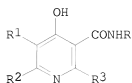
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3808444	A1	19880922	DE 1988-3808444	19880314
FR 2612189	A1	19880916	FR 1987-3465	19870313
FR 2612189	B1	19890623		
NL 8800606	A	19881003	NL 1988-606	19880311
JP 63243074	A	19881007	JP 1988-56457	19880311
GB 2204037	A	19881102	GB 1988-5869	19880311
GB 2204037	B	19910123		
CH 675245	A5	19900914	CH 1988-935	19880311
US 4925859	A	19900515	US 1988-167375	19880331
US 4987140	A	19910122	US 1989-441317	19891127
PRIORITY APPLN. INFO.:			FR 1987-3465	A 19870313
			US 1988-167375	A3 19880331

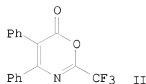
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 110:38902; MARPAT 110:38902

GI



I



II

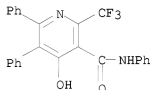
AB The title compds. [I; R = (un)substituted Ph, C1-5 alkyl-(un)substituted 5- or 6-membered heterocyclyl; R1, R2 = R, C1-5 alkyl, (un)substituted naphthyl; R3 = H, C1-5 alkyl, CF3(CF2)n, R4CHOH; R4 = C1-5 alkyl; n = 0-4] and their acid and base salts were prepared. PhCN was condensed with BrCHPhCO2Et under reducing conditions to give H2NCPh:PhCO2Et which was N-acylated with (CF3CO)2O and the product cyclized by heating in Ac2O to give oxazinone II. The latter was refluxed with BrCH2CO2Et and CH2(OMe)2 in the presence of Zn powder and catalytic iodine to give Et 4-hydroxy-5,6-diphenyl-2-(trifluoromethyl)-3-pyridinecarboxylate which was amidated with 2-thiazolamine to give I (R = 2-thiazolyl, R1 = R2 = Ph, R3 = CF3) (III). In the adjuvant arthritis test in rats III inhibited inflammation with an ED50 of 15 mg/kg orally.

IT 118289-02-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as inflammation inhibitor)

RN 118289-02-4 CAPLUS

CN 3-Pyridinecarboxamide, 4-hydroxy-N,5,6-triphenyl-2-(trifluoromethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1983:198028 CAPLUS

DOCUMENT NUMBER: 98:198028

ORIGINAL REFERENCE NO.: 98:30095a,30098a

TITLE: Pyridine derivatives inducing tillering and
agricultural compositions containing them

INVENTOR(S): Stacey, Gilbert Joseph; Hawkins, Alan Francis;
Pearson, David Philip John; Sunley, Raymond Leo

PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK

SOURCE: Eur. Pat. Appl., 40 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

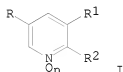
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	----	-----	-----

EP 67511	A2	19821222	EP 1982-302208	19820429
EP 67511	A3	19830406		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
GB 2099421	A	19821208	GB 1982-12420	19820419
AU 8283671	A	19821125	AU 1982-83671	19820513
US 4473395	A	19840925	US 1982-379047	19820517
BR 8202876	A	19830426	BR 1982-2876	19820518
JP 57197267	A	19821203	JP 1982-83339	19820519
PRIORITY APPLN. INFO.:			GB 1981-15251	A 19810519
			GB 1981-15252	A 19810519
			GB 1981-24941	A 19810814
			GB 1982-12420	A 19820419
			EP 1982-302208	A 19820429

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 98:198028; MARPAT 98:198028
 GI

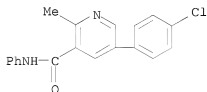


AB Phenylpyridine I [R = Ph, substituted Ph; R1 = cyano, carboxy, alkoxy, carbonyl, alkylthiocarbonyl, carbamoyl; R2 = H, halogen, (un)substituted alkyl, OH, NH2, Ph, alkoxy, carbonyl; n = 0, 1] were prepared
 Thus 4-ClC6H4CH2CO2H was treated with POCl3-DMF to give Me2NCH:C(CHO)C6H4Cl-4, which was cyclized with H2NCMe:CHCO2Et to form I (R = C6H4Cl-4; R1 = CO2Et; R2 = Me, n = 0) (II). II gave 132% of control barley tillering at 3 kg/ha.

IT 85583-03-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation, reduction, and tillering-inducing activity of)

RN 85583-03-5 CAPLUS

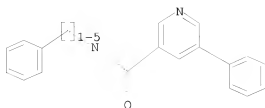
CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-2-methyl-N-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

=> => due
 DUE IS NOT A RECOGNIZED COMMAND

=> d que
 L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 365 SEA FILE=REGISTRY SSS FUL L1

L4 21 SEA FILE=CAPLUS L3

=> d l4 1-21 ibib abs hitstr

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:594820 CAPLUS

DOCUMENT NUMBER: 151:23967

TITLE: Identifying Novel Molecular Structures for Advanced Melanoma by Ligand-Based Virtual Screening
AUTHOR(S): Wang, Zhao; Lu, Yan; Seibel, William; Miller, Duane D.; Li, Wei

CORPORATE SOURCE: Department of Pharmaceutical Sciences, College of Pharmacy, University of Tennessee Health Science Center, Memphis, TN, 38163, USA

SOURCE: Journal of Chemical Information and Modeling (2009), 49(6), 1420-1427
CODEN: JCISD8; ISSN: 1549-9596

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We recently discovered a new class of thiazole analogs that are highly potent against melanoma cells. To expand the structure-activity relationship study and to explore potential new mol. scaffolds, we performed extensive ligand-based virtual screening against a compound library containing 342 910 small mols. Two different approaches of virtual screening were carried out using the structure of our lead mol.: (1) connectivity-based search using Scitegic Pipeline Pilot from Accelrys and (2) mol. shape similarity search using Schrodinger software. Using a testing compound library, both approaches can rank similar compds. very high and rank dissimilar compds. very low, thus validating our screening methods. Structures identified from these searches were analyzed, and selected compds. were tested in vitro to assess their activity against melanoma cancer cell lines. Several mols. showed good anticancer activity. While none of the identified compds. showed better activity than our lead compound, they provided important insight into structural modifications for our lead compound and also provided novel platforms on which we can optimize new classes of anticancer compds. One of the newly synthesized analogs based on this virtual screening has improved potency and selectivity against melanoma.

IT 1160108-27-9 1160108-28-0 1160108-29-1

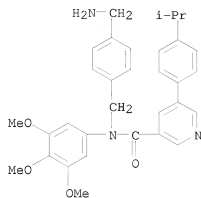
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(identifying mol. structures for advanced melanoma by ligand-based virtual screening)

RN 1160108-27-9 CAPLUS

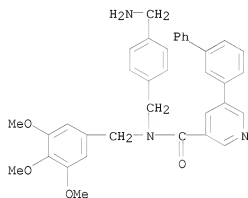
CN 3-Pyridinecarboxamide, N-[[4-(aminomethyl)phenyl]methyl]-5-[4-(1-

methylethyl)phenyl]-N-(3,4,5-trimethoxyphenyl)- (CA INDEX NAME)



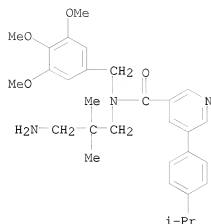
RN 1160108-28-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-(aminomethyl)phenyl]methyl]-5-[1,1'-biphenyl]-3-yl-N-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX NAME)



RN 1160108-29-1 CAPLUS

CN 3-Pyridinecarboxamide, N-(3-amino-2,2-dimethylpropyl)-5-[4-(1-methylethyl)phenyl]-N-[(3,4,5-trimethoxyphenyl)methyl]- (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2009:179582 CAPLUS
 DOCUMENT NUMBER: 150:214187
 TITLE: Preparation of therapeutic pyridine carboxamide orexin receptor antagonists
 INVENTOR(S): Bergman, Jeffrey M.; Coleman, Paul J.; Fraley, Mark E.; Mercer, Swati P.; Reger, Thomas S.; Roecker, Anthony J.; Steen, Justin T.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 90pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009020642	A1	20090212	WO 2008-US9491	20080807
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2007-964111P P 20070809
 OTHER SOURCE(S): MARPAT 150:214187
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB The present invention is directed to pyridyl carboxamide compds. of general formula I (wherein A1 and A2 are Ph, naphthyl, and heteroaryl; A3 is Ph, naphthyl, heteroaryl, and C3-6cycloalkyl; R1a-R1c, R2a-R2c, and R3a-R3c are independently H, halo, OH, etc., or may be absent; R4 and R5 are H, (un)substituted C1-6alkyl, or together may form part of a cycloalkyl ring; R6 is H, C1-6alkyl, and C3-6 cycloalkyl that are optionally substituted) which are antagonists of orexin receptors, and which are useful in the treatment or prevention of neurol. and psychiatric disorders and diseases in which orexin receptors are involved. The invention is also directed to pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which orexin receptors are involved. Synthetic procedures for preparing I are exemplified. Example compound II was prepared in a 4 step synthesis which culminated in the reaction of 6-(2-fluorophenyl)-5'-methyl-3,3'-bipyridine-5-carboxylic acid hydrochloride with 1-(5,6-dimethoxypyridin-2-yl)methanamine. II had a K_i of 0.74 nM in an assay that measured antagonism of OX2R receptors.
- II 1112849-68-9P, N-(3,4-Dimethoxybenzyl)-5-(3,5-dimethylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112849-69-0P, N-(3,4-Dimethoxybenzyl)-5-(3,5-dimethylphenyl)-6'-fluoro-2,3'-bipyridine-3-carboxamide 1112849-71-4P, N-(3,4-Dimethoxybenzyl)-5-(3,5-dimethylphenyl)-2-(quinolin-3-yl)nicotinamide 1112849-74-7P, N-(3,4-Dimethoxybenzyl)-5-(3,5-dimethylphenyl)-2-(3-hydroxyphenyl)nicotinamide 1112849-75-8P, N-(3,4-Dimethoxybenzyl)-5-(3,5-dimethylphenyl)-2-[3-[(methylamino)carbonyl]phenyl]nicotinamide 1112849-76-9P, N-(3,4-Dimethoxybenzyl)-2-[3-[(dimethylamino)methyl]phenyl]-5-(3,5-dimethylphenyl)nicotinamide 1112849-77-0P, N-(3,4-Dimethoxybenzyl)-5-(3,5-dimethylphenyl)-2-(1H-indol-5-yl)nicotinamide 1112849-79-2P, 5-(3,5-Dimethylphenyl)-N-[(1R)-1-(3-methoxyphenyl)ethyl]-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112849-85-0P, 5-(3,5-Dichlorophenyl)-N-[(2,3-dimethyl-1H-indol-6-yl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112849-87-2P, 5-(3-Fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-[(1R)-1-(2-naphthyl)ethyl]nicotinamide 1112849-89-4P, 5-(3,5-Dimethylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-[(2-naphthyl)methyl]nicotinamide 1112849-92-9P, 5-(3-Fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-[(2-naphthyl)methyl]nicotinamide 1112849-99-6P, 5-(3-Chloro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-01-7P, 5-(3-Fluoro-5-methylphenyl)-N-[1-(3,4-dimethoxyphenyl)ethyl]-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-03-9P, 5-(3-Fluoro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-04-0P, 5-(3-Chloro-5-methylphenyl)-N-[(2,3-dimethyl-1H-indol-5-yl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-07-3P, 5-(3-Chloro-5-methylphenyl)-N-[(2-naphthyl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-09-5P, 5-(3-Fluoro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(pyridazin-3-yl)nicotinamide 1112850-11-9P, 5-(3-Chloro-5-methylphenyl)-N-(3,4-dichlorobenzyl)-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-12-0P, 5-(3-Fluoro-5-methylphenyl)-N-[1-(3,4-dimethoxyphenyl)ethyl]-6'-fluoro-2,3'-bipyridine-3-carboxamide 1112850-14-2P, 5-(3,5-Dichlorophenyl)-N-(3,4-dimethoxybenzyl)-5'-chloro-2,3'-bipyridine-3-

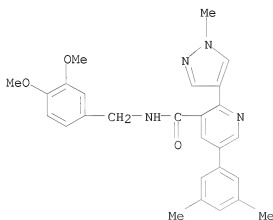
carboxamide 1112850-19-7P,
 5-(3-Chloro-5-methylphenyl)-N-[(1-methyl-2,3-dihydro-1H-indol-5-yl)methyl]-
 2-(1-methyl-1H-pyrazol-4-yl)nicotinamide 1112850-20-0P,
 5-(3-Chloro-5-methylphenyl)-N-[(1,4-dimethyl-1,2,3,4-tetrahydroquinoxalin-
 6-yl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)nicotinamide
 1112850-24-4P, 5-(3-Fluoro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-
 2-(1-methyl-1H-pyrazol-5-yl)nicotinamide 1112850-27-7P,
 5-(3-Chloro-5-methylphenyl)-N-(3,4-dihydroxybenzyl)-2-(1-methyl-1H-pyrazol-
 4-yl)nicotinamide 1112850-71-1P,
 5-(3-Chloro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(morpholin-4-
 yl)nicotinamide 1112850-72-2P,
 5-(3-Chloro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(piperidin-1-
 yl)nicotinamide 1112850-75-5P,
 5-(3-Chloro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(pyrrolidin-1-
 yl)nicotinamide 1112850-78-8P,
 2-(Azetidin-1-yl)-5-(3-chloro-5-methylphenyl)-N-(3,4-
 dimethoxybenzyl)nicotinamide 1112850-79-9P,
 5-(3,5-Dichlorophenyl)-N-(3,4-dimethoxybenzyl)-2-(3-methoxyazetidin-1-
 yl)nicotinamide 1112850-80-2P,
 5-(3,5-Dichlorophenyl)-N-(3,4-dimethoxybenzyl)-2-(3-fluoroazetidin-1-
 yl)nicotinamide 1112850-82-4P 1112850-85-7P,
 5-(3-Chloro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(4-
 thiomorpholinyl)nicotinamide 1112851-07-6P,
 N-(3-Chloro-4-methoxybenzyl)-5-(3-fluoro-5-methoxyphenyl)-2-(1H-pyrazol-1-
 yl)nicotinamide 1112851-19-0P,
 5-(3-Chloro-5-methylphenyl)-N-(3,4-dimethoxybenzyl)-2-(4-methyl-1H-pyrazol-
 1-yl)nicotinamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of therapeutic pyridine carboxamide orexin
 receptor antagonists)

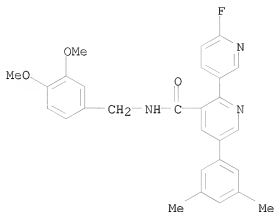
RN 1112849-68-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-
 dimethylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)



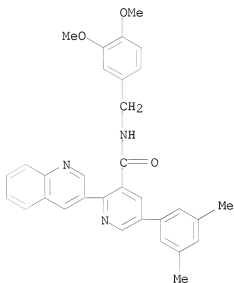
RN 1112849-69-0 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-
 dimethylphenyl)-6'-fluoro- (CA INDEX NAME)



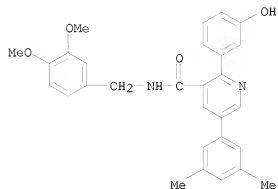
RN 1112849-71-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-dimethylphenyl)-2-(3-quinolinyl)- (CA INDEX NAME)



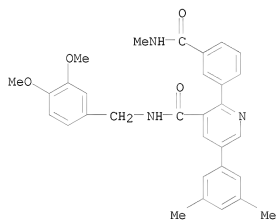
RN 1112849-74-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-dimethylphenyl)-2-(3-hydroxyphenyl)- (CA INDEX NAME)



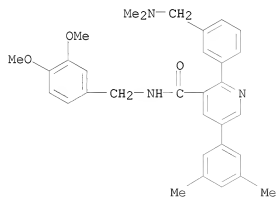
RN 1112849-75-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-dimethylphenyl)-2-[3-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



RN 1112849-76-9 CAPLUS

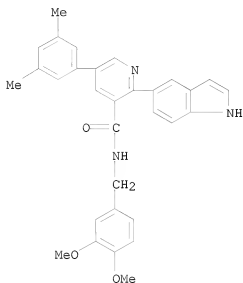
CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-2-[3-[(dimethylamino)methyl]phenyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



RN 1112849-77-0 CAPLUS

10/537,719

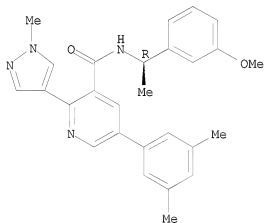
CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-dimethylphenyl)-2-(1H-indol-5-yl)- (CA INDEX NAME)



RN 1112849-79-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3,5-dimethylphenyl)-N-[(1R)-1-(3-methoxyphenyl)ethyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)

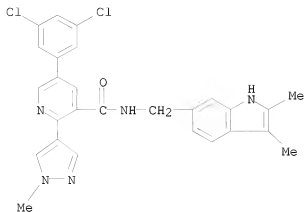
Absolute stereochemistry.



RN 1112849-85-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3,5-dichlorophenyl)-N-[(2,3-dimethyl-1H-indol-6-yl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)

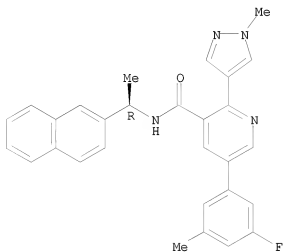
10/537,719



RN 1112849-87-2 CAPLUS

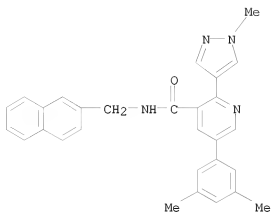
CN 3-Pyridinecarboxamide, 5-(3-fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-[(1R)-1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



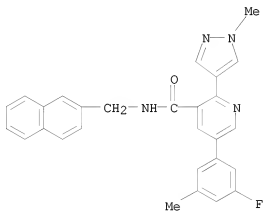
RN 1112849-89-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3,5-dimethylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-(2-naphthalenylmethyl)- (CA INDEX NAME)



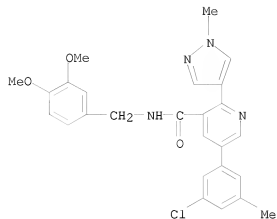
RN 1112849-92-9 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-(2-naphthalenylmethyl)- (CA INDEX NAME)



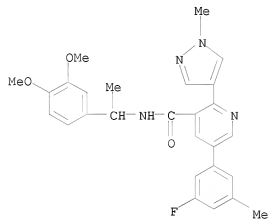
RN 1112849-99-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)



RN 1112850-01-7 CAPLUS

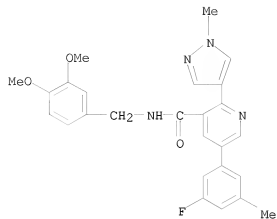
CN 3-Pyridinecarboxamide, N-[1-(3,4-dimethoxyphenyl)ethyl]-5-(3-fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)



RN 1112850-03-9 CAPLUS

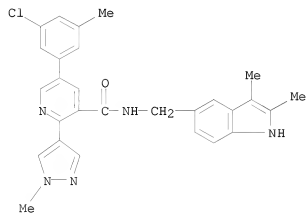
CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3-fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)

10/537,719



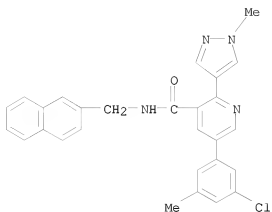
RN 1112850-04-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(2,3-dimethyl-1H-indol-5-yl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)



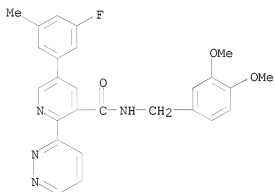
RN 1112850-07-3 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-(2-naphthalenylmethyl)- (CA INDEX NAME)



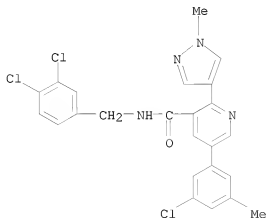
RN 1112850-09-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3-fluoro-5-methylphenyl)-2-(3-pyridazinyl)- (CA INDEX NAME)



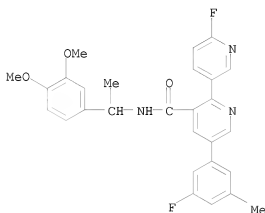
RN 1112850-11-9 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dichlorophenyl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)



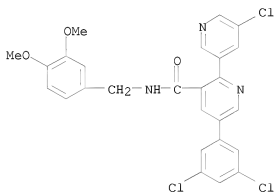
RN 1112850-12-0 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[1-(3,4-dimethoxyphenyl)ethyl]-6'-fluoro-5-(3-fluoro-5-methylphenyl)- (CA INDEX NAME)



RN 1112850-14-2 CAPLUS

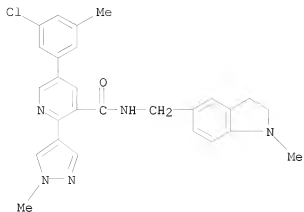
CN [2,3'-Bipyridine]-3-carboxamide, 5'-chloro-5-(3,5-dichlorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)



RN 1112850-19-7 CAPLUS

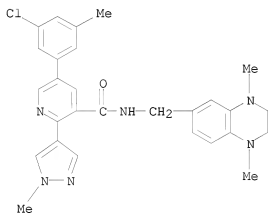
CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(2,3-dihydro-1-methyl-1H-indol-5-yl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)

10/537,719



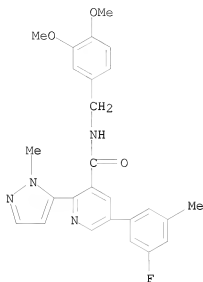
RN 1112850-20-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-4-yl)-N-[(1,2,3,4-tetrahydro-1,4-dimethyl-6-quinoxaliny)methyl]- (CA INDEX NAME)



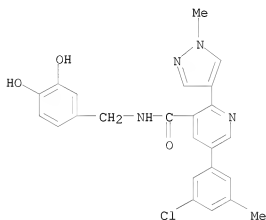
RN 1112850-24-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3-fluoro-5-methylphenyl)-2-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)



RN 1112850-27-7 CAPLUS

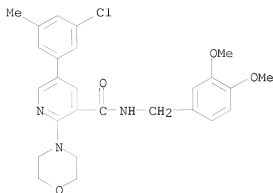
CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dihydroxyphenyl)methyl]-2-(1-methyl-1H-pyrazol-4-yl)- (CA INDEX NAME)



RN 1112850-71-1 CAPLUS

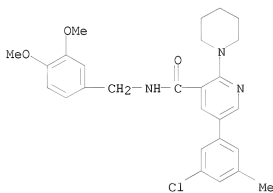
CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(4-morpholinyl)- (CA INDEX NAME)

10/537,719



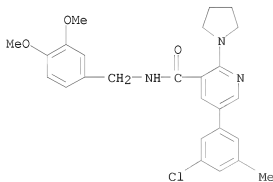
RN 1112850-72-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(1-piperidinyl)- (CA INDEX NAME)



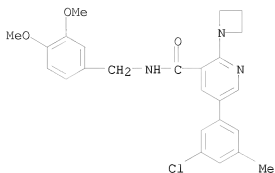
RN 1112850-75-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(1-pyrrolidinyl)- (CA INDEX NAME)



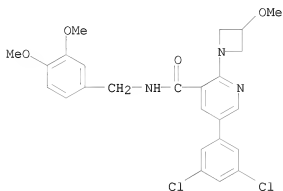
RN 1112850-78-8 CAPLUS

CN 3-Pyridinecarboxamide, 2-(1-azetidiny)-5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)



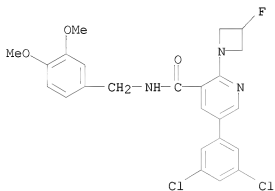
RN 1112850-79-9 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3,5-dichlorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(3-methoxy-1-azetidyl)- (CA INDEX NAME)



RN 1112850-80-2 CAPLUS

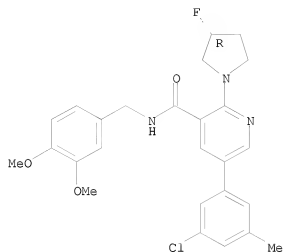
CN 3-Pyridinecarboxamide, 5-(3,5-dichlorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(3-fluoro-1-azetidyl)- (CA INDEX NAME)



RN 1112850-82-4 CAPLUS

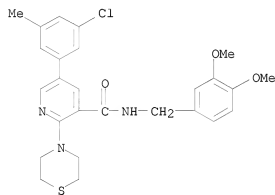
CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-[(3R)-3-fluoro-1-pyrrolidinyl]- (CA INDEX NAME)

Absolute stereochemistry.



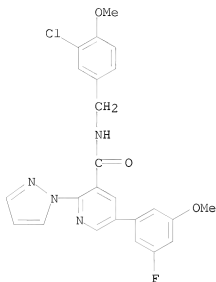
RN 1112850-85-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-[(3-chloro-5-methylphenyl)methyl]-N-[(3,4-dimethoxyphenyl)methyl]-2-[(4-thiomorpholinyl)- (CA INDEX NAME)



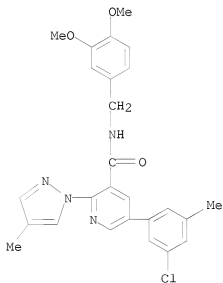
RN 1112851-07-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4-methoxyphenyl)methyl]-5-[(3-fluoro-5-methoxyphenyl)methyl]-2-[(1H-pyrazol-1-yl)- (CA INDEX NAME)



RN 1112851-19-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chloro-5-methylphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-2-(4-methyl-1H-pyrazol-1-yl)- (CA INDEX NAME)

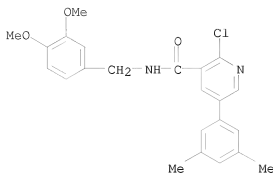


IT 1112849-67-8P, 2-Chloro-N-(3,4-dimethoxybenzyl)-5-(3,5-dimethylphenyl)nicotinamide

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of therapeutic pyridine carboxamide orexin receptor antagonists)

RN 1112849-67-8 CAPLUS

CN 3-Pyridinecarboxamide, 2-chloro-N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

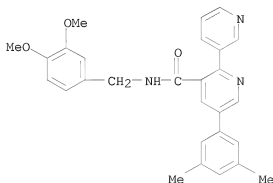
L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:1102334 CAPLUS
 DOCUMENT NUMBER: 149:355713
 TITLE: Preparation of bipyrindine carboxamide orexin receptor antagonists
 INVENTOR(S): Coleman, Paul J.; Mercer, Swati P.; Roecker, Anthony J.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 51pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008108991	A1	20080912	WO 2008-US2725	20080229
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2008223546	A1	20080912	AU 2008-223546	20080229
CA 2679817	A1	20080912	CA 2008-2679817	20080229
EP 2131654	A1	20091216	EP 2008-726293	20080229
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR			
PRIORITY APPLN. INFO.:			US 2007-904511P	P 20070302
			WO 2008-US2725	W 20080229

OTHER SOURCE(S): MARPAT 149:355713
 GI

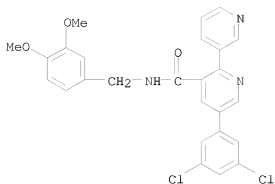
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB The title compds. I [A1, A2 = Ph, naphthyl, hetereoaryl; R11, R12, R13 = absent, H, halo, OH, etc.; R21, R22, R23 = absent, H, halo, OH, etc.; R3 = H, alkyl, cycloalkyl; R4, R5 = H, alkyl; or R4 and R5 may be joined together to form cycloalkyl] which are antagonists of orexin receptors, and which are useful in the treatment or prevention of neurol. and psychiatric disorders and diseases in which orexin receptors are involved, were prepared E.g., a multi-step synthesis of II, starting from Me 3-oxo-3-(pyridin-3-yl)propanoate and N-[(2Z)-2-chloro-3-(dimethylamino)-prop-2-en-1-ylidene]-N-methylmethanaminium hexafluorophosphate, was given. Exemplified compds. I showed activity in antagonizing the rat orexin-1 receptor and/or the human orexin-2 receptor, generally with an IC50 of less than about 50 μ M. The invention is also directed to pharmaceutical compns. comprising compds. I and the use of these compds. and compns. in the prevention or treatment of such diseases in which orexin receptors are involved.
- IT 1056416-78-4P 1056416-83-1P 1056416-88-6P
 1056416-95-5P 1056417-02-7P 1056417-09-4P
 1056417-15-2P 1056417-22-1P 1056417-29-8P
 1056417-35-6P 1056417-42-5P 1056417-48-1P
 1056417-55-0P 1056417-62-9P 1056417-69-6P
 1056417-76-5P 1056417-83-4P 1056417-89-0P
 1056417-96-9P 1056418-03-1P 1056418-10-0P
 1056418-17-7P 1056418-23-5P 1056418-45-1P
- RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- (preparation of bipyridine carboxamide orexin receptor antagonists)
- RN 1056416-78-4 CAPLUS
- CN [2,3'-Bipyridine]-3-carboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



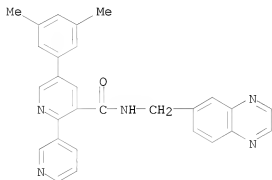
- RN 1056416-83-1 CAPLUS
- CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dichlorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)

10/537,719



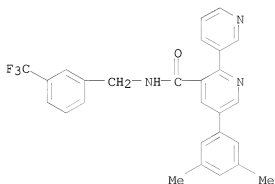
RN 1056416-88-6 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethoxyphenyl)-N-(6-quinoxalinylmethyl)- (CA INDEX NAME)



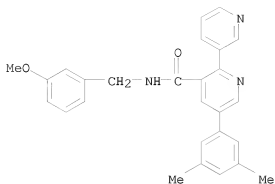
RN 1056416-95-5 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethylphenyl)-N-[[3-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)



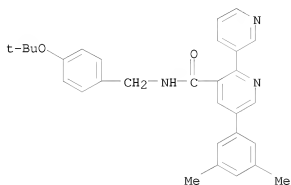
RN 1056417-02-7 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethylphenyl)-N-[(3-methoxyphenyl)methyl]- (CA INDEX NAME)



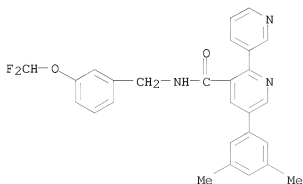
RN 1056417-09-4 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[[4-(1,1-dimethylethoxy)phenyl]methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



RN 1056417-15-2 CAPLUS

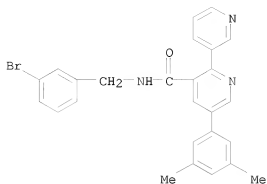
CN [2,3'-Bipyridine]-3-carboxamide, N-[[3-(difluoromethoxy)phenyl]methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



RN 1056417-22-1 CAPLUS

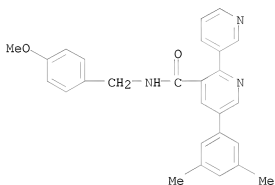
CN [2,3'-Bipyridine]-3-carboxamide, N-[(3-bromophenyl)methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)

10/537,719



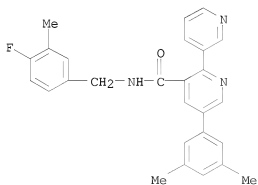
RN 1056417-29-8 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethylphenyl)-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



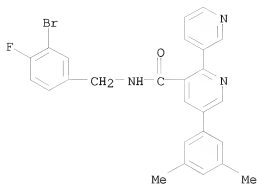
RN 1056417-35-6 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethylphenyl)-N-[(4-fluoro-3-methylphenyl)methyl]- (CA INDEX NAME)



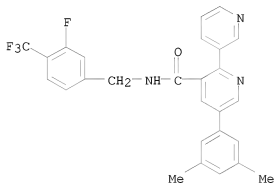
RN 1056417-42-5 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[(3-bromo-4-fluorophenyl)methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



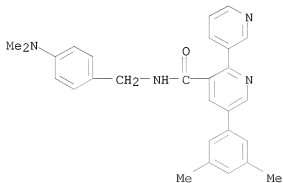
RN 1056417-48-1 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethylphenyl)-N-([3-fluoro-4-(trifluoromethyl)phenyl]methyl)- (CA INDEX NAME)



RN 1056417-55-0 CAPLUS

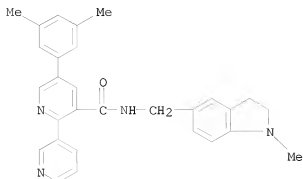
CN [2,3'-Bipyridine]-3-carboxamide, N-([4-(dimethylamino)phenyl]methyl)-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



RN 1056417-62-9 CAPLUS

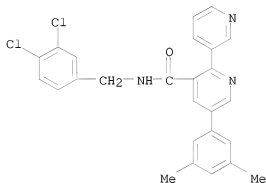
CN [2,3'-Bipyridine]-3-carboxamide, N-((2,3-dihydro-1-methyl-1H-indol-5-yl)methyl)-5-(3,5-dimethylphenyl)- (CA INDEX NAME)

10/537,719



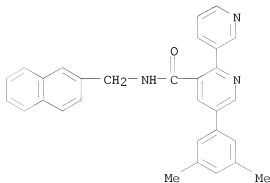
RN 1056417-69-6 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[(3,4-dichlorophenyl)methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



RN 1056417-76-5 CAPLUS

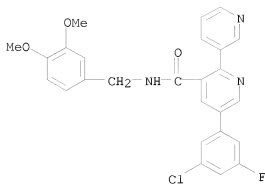
CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-dimethylphenyl)-N-(2-naphthalenylmethyl)- (CA INDEX NAME)



RN 1056417-83-4 CAPLUS

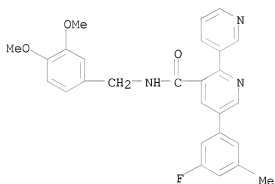
CN [2,3'-Bipyridine]-3-carboxamide, 5-(3-chloro-5-fluorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)

10/537,719



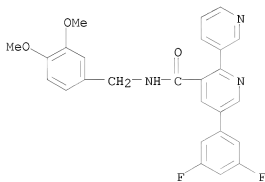
RN 1056417-89-0 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[(3,4-dimethoxyphenyl)methyl]-5-(3-fluoro-5-methylphenyl)- (CA INDEX NAME)



RN 1056417-96-9 CAPLUS

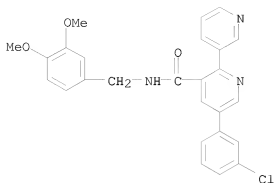
CN [2,3'-Bipyridine]-3-carboxamide, 5-(3,5-difluorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)



RN 1056418-03-1 CAPLUS

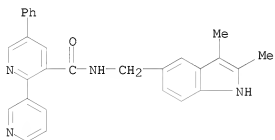
CN [2,3'-Bipyridine]-3-carboxamide, 5-(3-chlorophenyl)-N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)

10/537,719



RN 1056418-10-0 CAPLUS

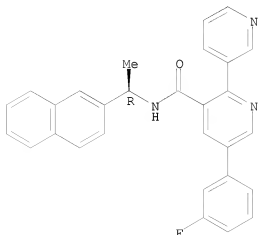
CN [2,3'-Bipyridine]-3-carboxamide, N-[(2,3-dimethyl-1H-indol-5-yl)methyl]-5-phenyl- (CA INDEX NAME)



RN 1056418-17-7 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(3-fluorophenyl)-N-[(1R)-1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)

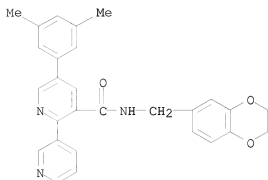
Absolute stereochemistry.



RN 1056418-23-5 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, N-[(2,3-dihydro-1,4-benzodioxin-6-

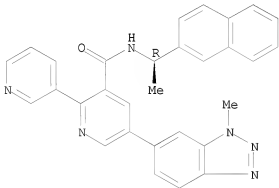
yl)methyl]-5-(3,5-dimethylphenyl)- (CA INDEX NAME)



RN 1056418-45-1 CAPLUS

CN [2,3'-Bipyridine]-3-carboxamide, 5-(1-methyl-1H-benzotriazol-6-yl)-N-[(1R)-1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:829152 CAPLUS

DOCUMENT NUMBER: 149:153073

TITLE: Heterocyclic carboxamide derivatives as calpain inhibitors and their preparation, pharmaceutical compositions and use in the treatment of diseases
 INVENTOR(S): Kling, Andreas; Hornberger, Wilfried; Mack, Helmut; Moeller, Achim; Nimmrich, Volker; Seemann, Dietmar; Lubisch, Wilfried

PATENT ASSIGNEE(S): Abbott G.m.b.H. & Co. K.-G., Germany

SOURCE: PCT Int. Appl., 145pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

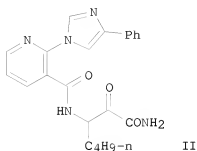
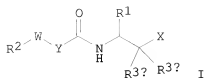
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

```

-----
WO 2008080969      A1      20080710      WO 2007-EP64617      20071228
W:  AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
    CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,
    FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
    KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
    ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
    PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,
    TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
    IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
    BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
    GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
    BY, KG, KZ, MD, RU, TJ, TM
AU 2007341232      A1      20080710      AU 2007-341232      20071228
CA 2673580      A1      20080710      CA 2007-2673580      20071228
KR 2009097205      A      20090915      KR 2009-716007      20071228
EP 2121653      A1      20091125      EP 2007-866322      20071228
R:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
    IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, RS
US 20080234329      A1      20080925      US 2008-70941      20080222
US 20080234330      A1      20080925      US 2008-72065      20080222
WO 2009083581      A1      20090709      WO 2008-EP68313      20081229
W:  AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
    CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,
    FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
    KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
    ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
    PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
    TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
    IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,
    TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
    TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
    AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
CN 101616908      A      20091230      CN 2007-80051850      20090827
PRIORITY APPLN. INFO.: EP 2006-127369      A      20061229
WO 2007-EP64617      W      20071228
EP 2008-159041      A      20080625

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S):      MARPAT 149:153073
GI

```



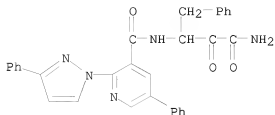
AB The invention relates to carboxamide derivs. of formula I and their use for the manufacture of a medicament. The carboxamide compds. are inhibitors of calpain (calcium dependent cysteine proteases). The invention therefore also relates to the use of these carboxamide compds. for treating a disorder associated with an elevated calpain activity. Compds. of formula I wherein, R1 is H, (un)substituted C1-10 alkyl, (un)substituted C2-10 alkenyl, (un)substituted C2-10 alkynyl, C3-7 (hetero)cycloalkyl, C3-7 (hetero)cycloalkyl-C1-4 alkyl, etc.; R2 is H, (un)substituted C1-10 alkyl, (un)substituted C1-10 alkoxy, (un)substituted C2-10 alkenyl, (un)substituted C2-10 alkynyl, (un)substituted C3-7 (hetero)cycloalkyl, etc.; R3a and R3b are independently OH and C1-4 alkoxy; R3aR3b may taken together with the carbon attached to form C=O; X is H, CO2H and derivs., CONH2 and derivs., CONH-C1-6 alkyl and derivs. and CONH-NH2 and derivs.; Y is a divalent, (un)substituted aromatic or (un)substituted 6-membered heteroarom. radical; Y is a divalent, (un)substituted aromatic or (un)substituted 6-membered heteroarom. radical; W is (un)substituted imidazolyl and (un)substituted pyrazolyl; W and R2 may take together to form (un)substituted heterobi- or heterotricyclic radical, and their tautomers, prodrugs and pharmaceutically suitable salts thereof, are claimed. Example compound II was prepared via amidation of 2-(4-phenyl-1H-imidazol-1-yl)pyridine-3-carboxylic acid with 3-amino-2-hydroxyheptanamide; the resulting

IT 1037827-72-7P, N-[3-Amino-2,3-dioxo-1-(phenylmethyl)propyl]-5-phenyl-2-(3-phenyl-1H-pyrazol-1-yl)pyridine-3-carboxamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of heterocyclic carboxamide derivs. as calpain inhibitors useful in the treatment of diseases)

RN 1037827-72-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[3-amino-2,3-dioxo-1-(phenylmethyl)propyl]-5-phenyl-2-(3-phenyl-1H-pyrazol-1-yl)- (CA INDEX NAME)



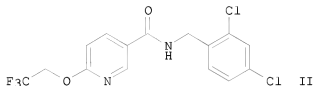
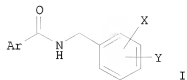
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 2007:964876 CAPLUS
DOCUMENT NUMBER: 147:322852
TITLE: Preparation of substituted pyridinamides as soluble
epoxide hydrolase inhibitors
INVENTOR(S): Eldrup, Anne Bettina; Farrow, Neil Alexander;
Kowalski, Jennifer A.; Delombaert, Stephane; Mugge,
Ingo Andreas; Soleymanzadeh, Fariba; Swinamer, Alan
David; Taylor, Steven John
PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany;
Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.
SOURCE: PCT Int. Appl., 157 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007098352	A2	20070830	WO 2007-US62168	20070215
WO 2007098352	A3	20071025		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA CA 2637620 A1 20070830 CA 2007-2637620 20070215 EP 1987004 A2 20081105 EP 2007-757015 20070215 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR JP 2009528992 T 20090813 JP 2008-555479 20070215 US 20090099184 A1 20090416 US 2008-278063 20080801 PRIORITY APPLN. INFO.: US 2006-743301P P 20060216 WO 2007-US62168 W 20070215				

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 147:322852

GI



AB The title compds. I [Ar = (un)substituted Ph or pyridinyl; X, Y = H, halo, CN, etc.] which are compds. active against soluble epoxide hydrolase (sEH), were prepared. Thus, reacting 6-(2,2,2-trifluoroethoxy)nicotinic acid with 2,4-dichlorobenzylamine afforded 56% II. Pharmaceutical composition comprising the compound I is claimed.

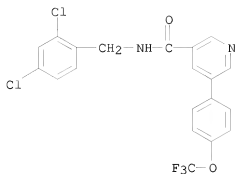
IT	947500-35-8P	947500-36-9P	947500-47-2P
	947500-48-3P	947500-58-5P	947500-67-6P
	947500-78-9P	947500-84-7P	947500-85-8P
	947501-04-4P	947501-45-3P	947501-59-9P
	947501-78-2P	947501-83-9P	947501-84-0P
	947501-91-9P	947501-92-0P	947501-94-2P
	947501-95-3P	947501-96-4P	947501-97-5P
	947501-98-6P	947501-99-7P	947502-03-6P
	947502-08-1P	947502-09-2P	947502-10-5P
	947502-11-6P	947502-12-7P	947502-15-0P
	947502-19-4P	947502-41-2P	947502-48-9P
	947502-50-3P	947502-52-5P	947502-53-6P
	947502-55-8P	947502-57-0P	947502-67-2P
	947502-69-4P	947502-71-8P	947502-72-9P
	947502-75-2P	947502-76-3P	947502-77-4P
	947502-78-5P	947502-79-6P	947502-80-9P
	947502-86-5P	947502-87-6P	947502-88-7P
	947502-89-8P	947502-90-1P	947502-93-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted pyridinamides as soluble epoxide hydrolase inhibitors)

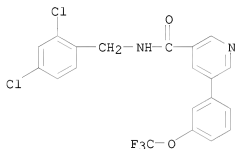
RN 947500-35-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2,4-dichlorophenyl)methyl]-5-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



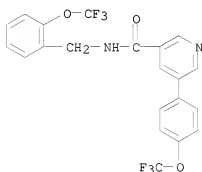
RN 947500-36-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2,4-dichlorophenyl)methyl]-5-[3-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



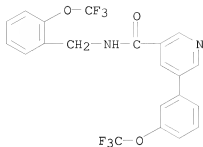
RN 947500-47-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-[4-(trifluoromethoxy)phenyl]-N-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



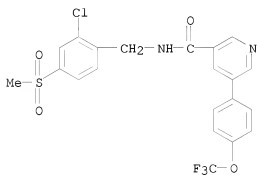
RN 947500-48-3 CAPLUS

CN 3-Pyridinecarboxamide, 5-[3-(trifluoromethoxy)phenyl]-N-[[2-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



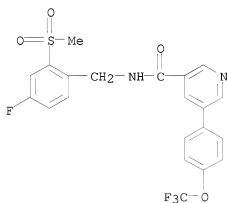
RN 947500-58-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylsulfonyl)phenyl]methyl]-5-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



RN 947500-67-6 CAPLUS

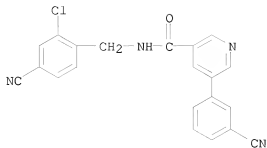
CN 3-Pyridinecarboxamide, N-[[4-fluoro-2-(methylsulfonyl)phenyl]methyl]-5-[4-(trifluoromethoxy)phenyl]- (CA INDEX NAME)



RN 947500-78-9 CAPLUS

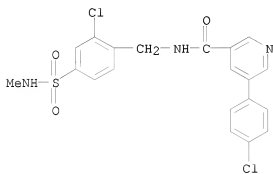
CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-(3-cyanophenyl)- (CA INDEX NAME)

10/537,719



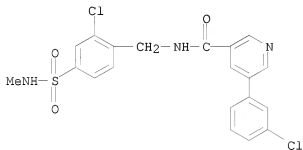
RN 947500-84-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylamino)sulfonyl]phenyl]methyl]-5-(4-chlorophenyl)- (CA INDEX NAME)



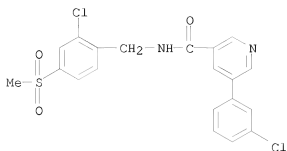
RN 947500-85-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylamino)sulfonyl]phenyl]methyl]-5-(3-chlorophenyl)- (CA INDEX NAME)



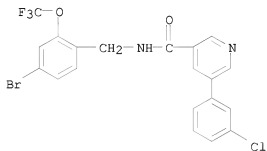
RN 947501-04-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylsulfonyl)phenyl]methyl]-5-(3-chlorophenyl)- (CA INDEX NAME)



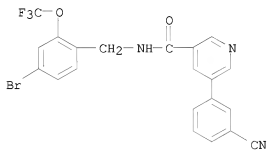
RN 947501-45-3 CAPLUS

CN 3-Pyridinecarboxamide, N-([4-bromo-2-(trifluoromethoxy)phenyl]methyl)-5-(3-chlorophenyl)- (CA INDEX NAME)



RN 947501-59-9 CAPLUS

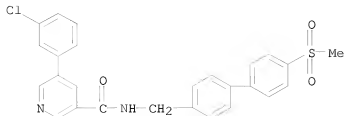
CN 3-Pyridinecarboxamide, N-([4-bromo-2-(trifluoromethoxy)phenyl]methyl)-5-(3-cyanophenyl)- (CA INDEX NAME)



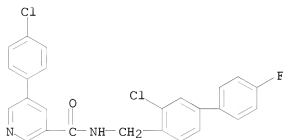
RN 947501-78-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-chlorophenyl)-N-([4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]methyl)- (CA INDEX NAME)

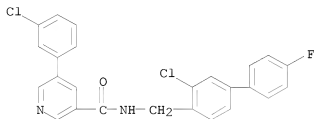
10/537,719



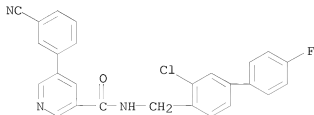
RN 947501-83-9 CAPLUS
CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(4-chlorophenyl)- (CA INDEX NAME)



RN 947501-84-0 CAPLUS
CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(3-chlorophenyl)- (CA INDEX NAME)



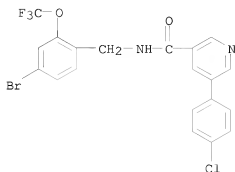
RN 947501-91-9 CAPLUS
CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(3-cyanophenyl)- (CA INDEX NAME)



RN 947501-92-0 CAPLUS
CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-(4-chlorophenyl)- (CA INDEX NAME)

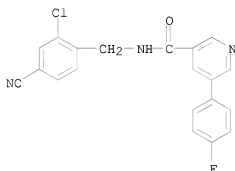
10/537,719

chlorophenyl)- (CA INDEX NAME)



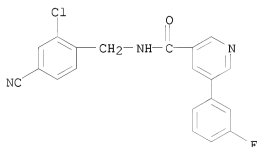
RN 947501-94-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-(4-fluorophenyl)- (CA INDEX NAME)



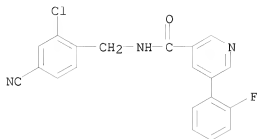
RN 947501-95-3 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-(3-fluorophenyl)- (CA INDEX NAME)



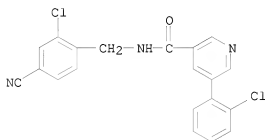
RN 947501-96-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-(2-fluorophenyl)- (CA INDEX NAME)



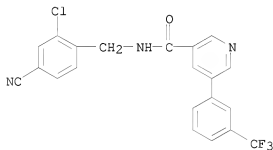
RN 947501-97-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-(2-chlorophenyl)- (CA INDEX NAME)



RN 947501-98-6 CAPLUS

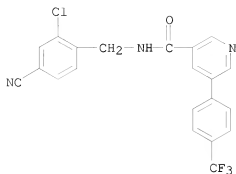
CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 947501-99-7 CAPLUS

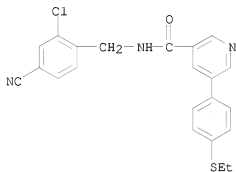
CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)

10/537,719



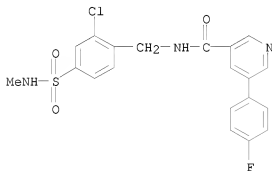
RN 947502-03-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2-chloro-4-cyanophenyl)methyl]-5-[4-(ethylthio)phenyl]- (CA INDEX NAME)



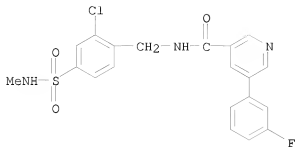
RN 947502-08-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-(4-fluorophenyl)- (CA INDEX NAME)

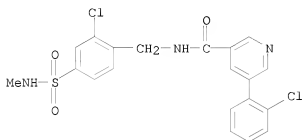


RN 947502-09-2 CAPLUS

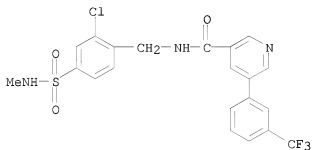
CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-(3-fluorophenyl)- (CA INDEX NAME)



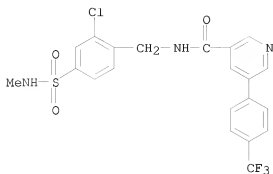
RN 947502-10-5 CAPLUS
 CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-(2-chlorophenyl)- (CA INDEX NAME)



RN 947502-11-6 CAPLUS
 CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)

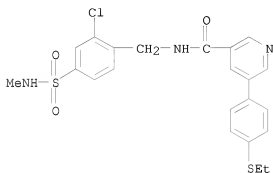


RN 947502-12-7 CAPLUS
 CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



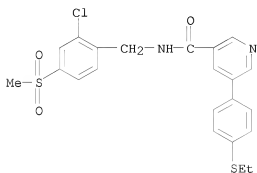
RN 947502-15-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-[4-(ethylthio)phenyl]- (CA INDEX NAME)



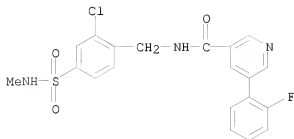
RN 947502-19-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylsulfonyl)phenyl]methyl]-5-[4-(ethylthio)phenyl]- (CA INDEX NAME)



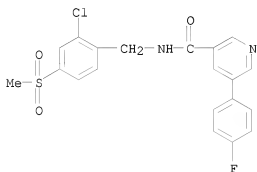
RN 947502-41-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-[(methylamino)sulfonyl]phenyl]methyl]-5-(2-fluorophenyl)- (CA INDEX NAME)



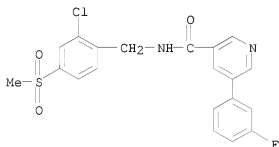
RN 947502-48-9 CAPLUS

CN 3-Pyridinecarboxamide, N-([2-chloro-4-(methylsulfonyl)phenyl]methyl)-5-(4-fluorophenyl)- (CA INDEX NAME)



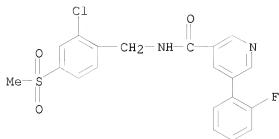
RN 947502-50-3 CAPLUS

CN 3-Pyridinecarboxamide, N-([2-chloro-4-(methylsulfonyl)phenyl]methyl)-5-(3-fluorophenyl)- (CA INDEX NAME)



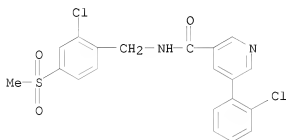
RN 947502-52-5 CAPLUS

CN 3-Pyridinecarboxamide, N-([2-chloro-4-(methylsulfonyl)phenyl]methyl)-5-(2-fluorophenyl)- (CA INDEX NAME)



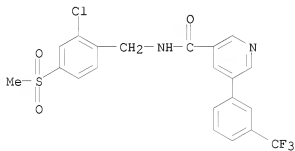
RN 947502-53-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylsulfonyl)phenyl]methyl]-5-(2-chlorophenyl)- (CA INDEX NAME)



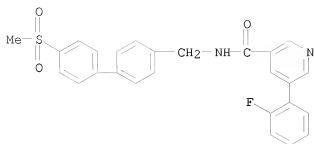
RN 947502-55-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylsulfonyl)phenyl]methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



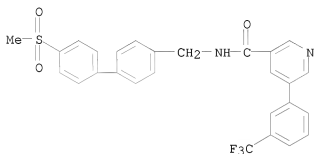
RN 947502-57-0 CAPLUS

CN 3-Pyridinecarboxamide, N-[[2-chloro-4-(methylsulfonyl)phenyl]methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



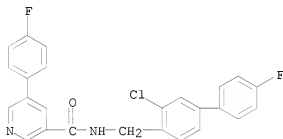
RN 947502-72-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[(4'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



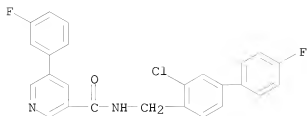
RN 947502-75-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(4-fluorophenyl)- (CA INDEX NAME)



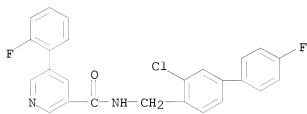
RN 947502-76-3 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(3-fluorophenyl)- (CA INDEX NAME)



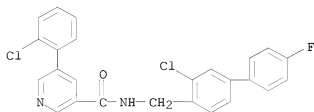
RN 947502-77-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(2-fluorophenyl)- (CA INDEX NAME)



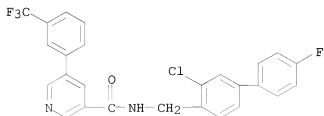
RN 947502-78-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-(2-chlorophenyl)- (CA INDEX NAME)



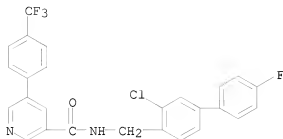
RN 947502-79-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



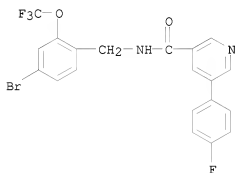
RN 947502-80-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3-chloro-4'-fluoro[1,1'-biphenyl]-4-yl)methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



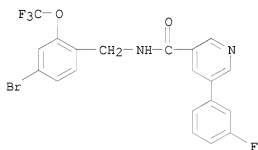
RN 947502-86-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-(4-fluorophenyl)- (CA INDEX NAME)



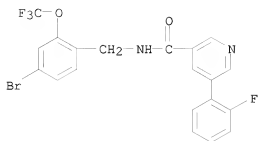
RN 947502-87-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-(3-fluorophenyl)- (CA INDEX NAME)



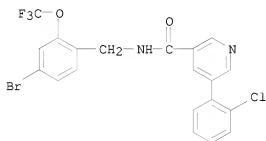
RN 947502-88-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-(2-fluorophenyl)- (CA INDEX NAME)



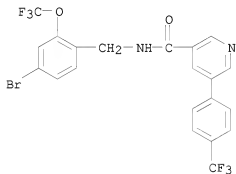
RN 947502-89-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-(2-chlorophenyl)- (CA INDEX NAME)



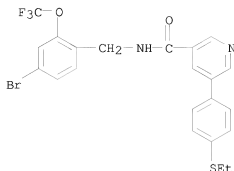
RN 947502-90-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 947502-93-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-bromo-2-(trifluoromethoxy)phenyl]methyl]-5-[4-(ethylthio)phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:905857 CAPLUS

DOCUMENT NUMBER: 147:277452

TITLE: Anthranilamide/2-amino-heteroarenecarboxamide
derivatives as CETP inhibitors and their preparation
INVENTOR(S): Conte, Aurelia; Kuehne, Holger; Luebbbers, Thomas;
Mattei, Patrizio; Maugeais, Cyrille; Mueller, Werner;
Pflieger, Philippe

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 103pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007090752	A1	20070816	WO 2007-EP50815	20070129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20070219261	A1	20070920	US 2007-655538	20070119
AU 2007213835	A1	20070816	AU 2007-213835	20070129
CA 2637771	A1	20070816	CA 2007-2637771	20070129
EP 1984340	A1	20081029	EP 2007-726239	20070129
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2009526008	T	20090716	JP 2008-553714	20070129
MX 2008009915	A	20080811	MX 2008-9915	20080801
IN 2008CN04117	A	20090313	IN 2008-CN4117	20080805
KR 2008083352	A	20080917	KR 2008-719276	20080806
CN 101379036	A	20090304	CN 2007-80004778	20080807

PRIORITY APPLN. INFO.:

EP 2006-101366

A 20060207

WO 2007-EP50815

W 20070129

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 147:277452

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Comps. of formula I processes for their preparation, their use as pharmaceuticals and to pharmaceutical compns. comprising them. Compds. of formula I wherein R1, R2, R4 and R5 are independently H, C1-6 alkyl, C1-6 alkoxy and halo; R3 is C1-6 (halo)alkyl, C3-6 cycloalkyl, Si(C1-6 alkyl)3, etc.; R2R3 taken together to form a 5- to 6-membered carbocycle and 5- to 6-membered heterocycle; R6 is H and C1-6 alkyl; R7 and R8 are independently H, C1-6 alkyl, OH and halo; R9 is H, C1-6 (halo)alkyl, C2-6 alkenyl, heterocyclyl, heteroaryl, etc.; R10 and R11 are independently H, halo, C1-6 alkyl, and acyl; A and B are independently N, CH, C-halo, C-C1-6 alkyl, C-C1-6 alkoxy, and C-C2-6 alkenyl; D is N, CH, C-halo, C-C1-6 alkyl, C-C1-6 alkoxy, C-C2-6 alkenyl and phenyl; E is N, CH, C-halo, C-C1-6 alkyl, C-C1-6 alkoxy, and C-C2-6 alkenyl, etc.; and their pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by amidation of 5-chloro-2-isopropylaminobenzoic acid with (4-cyclopentylbenzyl)-[2-(3-trifluoromethylphenyl)ethyl]amine. All the invention compds. were evaluated for their CETP inhibitory activity (some data given).

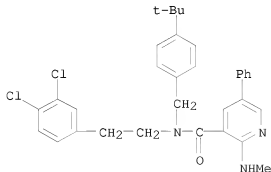
IT 946116-22-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of anthranilamide and aminoheteroarenecarboxamide derivs. as CETP inhibitors)

RN 946116-22-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[2-(3,4-dichlorophenyl)ethyl]-N-[[4-(1,1-dimethylethyl)phenyl]methyl]-2-(methylamino)-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

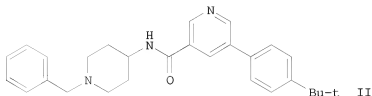
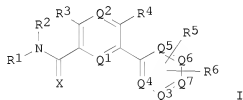
L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2007:83548 CAPLUS

DOCUMENT NUMBER: 146:184364
TITLE: Preparation of nicotinamides as inhibitors of mitotic
kinesin
INVENTOR(S): Pinkerton, Anthony B.; David, Robert L.
PATENT ASSIGNEE(S): Kalypsys, Inc., USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.		DATE	
WO 2007011760		A2	20070125	WO 2006-US27450		20060713	
WO 2007011760		A3	20070907				
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LG, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VE, VN, ZM, ZW						
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MK, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AE, EA, EP, OA						

PRIORITY APPLN. INFO.: US 2005-699523P P 20050715
OTHER SOURCE(S): MARPAT 146:184364
GT



AB The title compds. I [R1, R2 = H, alkyl, alkoxyalkyl, etc.; or NR1R2 = (un)substituted heterocycloalkyl; R3-R7 = H, carboxy, alkoxy, carbonyl, etc.; X = O or S; Q1, Q2 = CR7 and N (with the proviso that only one of Q1 and Q2 = CR7); Q3-Q7 = CR7 and N], useful as inhibitors of KSP for the treatment or prevention of cellular proliferative diseases, were prepared E.g., a 2-step synthesis of II, starting from 5-bromonicotinic acid and

1-benzylpiperidin-4-ylamine, was given. Exemplified compds. I were tested in vitro KSP ATP depletion assay. For example, II showed IC₅₀ of ≤20 μM in that assay. Pharmaceutical composition comprising the compound I as well as a method of treatment of a KSP-mediated disease comprising the administration of compound I in combination with another therapeutic agents are disclosed.

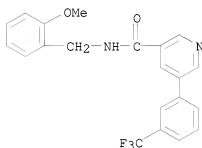
IT 1057089-58-3 1057089-65-2 1057089-66-3
 1057089-67-4 1057089-68-5 1057089-69-6
 1057089-79-8 1057089-80-1 1057089-83-4
 1057089-84-5

RL: PRPH (Prophetic)

(Preparation of nicotinamides as inhibitors of mitotic kinesin)

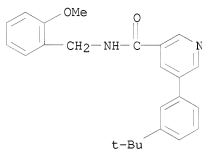
RN 1057089-58-3 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2-methoxyphenyl)methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



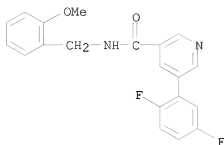
RN 1057089-65-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-[3-(1,1-dimethylethyl)phenyl]-N-[(2-methoxyphenyl)methyl]- (CA INDEX NAME)

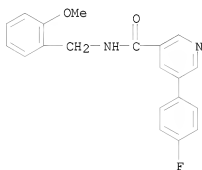


RN 1057089-66-3 CAPLUS

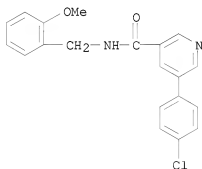
CN 3-Pyridinecarboxamide, 5-(2,5-difluorophenyl)-N-[(2-methoxyphenyl)methyl]- (CA INDEX NAME)



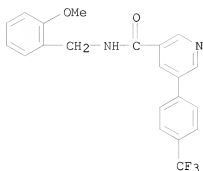
RN 1057089-67-4 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[(2-methoxyphenyl)methyl]-
 (CA INDEX NAME)



RN 1057089-68-5 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-N-[(2-methoxyphenyl)methyl]-
 (CA INDEX NAME)

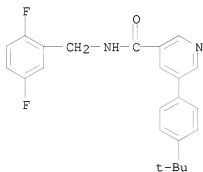


RN 1057089-69-6 CAPLUS
 CN 3-Pyridinecarboxamide, N-[(2-methoxyphenyl)methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



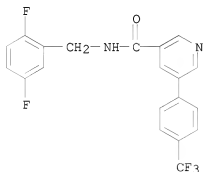
RN 1057089-79-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2,5-difluorophenyl)methyl]-5-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



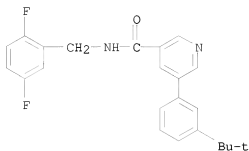
RN 1057089-80-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2,5-difluorophenyl)methyl]-5-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



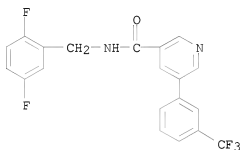
RN 1057089-83-4 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2,5-difluorophenyl)methyl]-5-[3-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



RN 1057089-84-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[(2,5-difluorophenyl)methyl]-5-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



IT 921612-14-8P 921612-25-1P 921612-28-4P

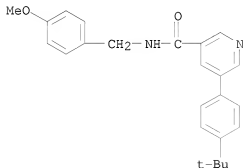
921612-34-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nicotinamides as inhibitors of mitotic kinesin useful in treatment and prevention of proliferative diseases)

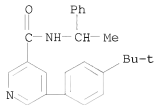
RN 921612-14-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-[4-(1,1-dimethylethyl)phenyl]-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



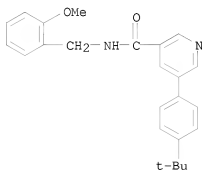
RN 921612-25-1 CAPLUS

CN 3-Pyridinecarboxamide, 5-[4-(1,1-dimethylethyl)phenyl]-N-(1-phenylethyl)- (CA INDEX NAME)



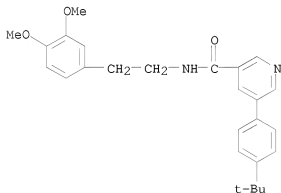
RN 921612-28-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-[4-(1,1-dimethylethyl)phenyl]-N-[(2-methoxyphenyl)methyl]- (CA INDEX NAME)



RN 921612-34-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[2-(3,4-dimethoxyphenyl)ethyl]-5-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:844724 CAPLUS

DOCUMENT NUMBER: 145:271808

TITLE: Pyridyl and phenyl substituted piperazine-piperidines with CXCR3 antagonist activity and their preparation, pharmaceutical compositions and their use in the treatment of chemokine mediated diseases

INVENTOR(S): McGuinness, Brian F.; Rosenblum, Stuart B.; Kozlowski,

Joseph A.; Anilkumar, Gopinadhan N.; Kim, Seong Heon;
 Shih, Neng-Yang; Jenh, Chung-Her; Zavodny, Paul J.;
 Hobbs, Douglas W.; Dong, Guizhen; Shao, Yuefei;
 Zawacki, Lisa Guise; Yang, Cangming; Carroll, Carolyn
 Dilanni

PATENT ASSIGNEE(S): Schering Corporation, USA; Pharmacoepia Drug
 Discovery, Inc.

SOURCE: PCT Int. Appl., 242 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006088919	A2	20060824	WO 2006-US5265	20060214
WO 2006088919	A3	20061102		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2006214378	A1	20060824	AU 2006-214378	20060214
CA 2598457	A1	20060824	CA 2006-2598457	20060214
US 20070021611	A1	20070125	US 2006-353697	20060214
EP 1856097	A2	20071121	EP 2006-735088	20060214
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
JP 2008530218	T	20080807	JP 2007-556253	20060214
MX 2007009946	A	20070926	MX 2007-9946	20070815
ZA 2007006793	A	20081126	ZA 2007-6793	20070815
KR 2007107056	A	20071106	KR 2007-719138	20070821
CN 101213185	A	20080702	CN 2006-80012640	20071016
PRIORITY APPLN. INFO.:			US 2005-653337P	P 20050216
			WO 2006-US5265	W 20060214

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 145:271808; MARPAT 145:271808

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present application discloses a compound, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts, solvates or esters of said compound, or of said prodrug, said compound having the general structure shown in Formula 1: and the pharmaceutically acceptable salts, solvates and esters thereof. Also disclosed is a method of treating chemokine mediated diseases, such as, palliative therapy, curative therapy, prophylactic therapy of certain

diseases and conditions such as inflammatory diseases (non limiting example(s) include, psoriasis), autoimmune diseases (non limiting example(s) include, rheumatoid arthritis, multiple sclerosis), graft rejection (non limiting example(s) include, allograft rejection, xenograft rejection), infectious diseases (e.g., tuberculoïd leprosy), fixed drug eruptions, cutaneous delayed-type hypersensitivity responses, ophthalmic inflammation, type I diabetes, viral meningitis and tumors using a compound of Formula 1. The present application discloses a compound, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts, solvates or esters of said compound, or of said prodrug, said compound having the general structure shown in formula I. Comps. of formula I wherein Z is N, CR29, NO, or NOH; X is N, O, alkyl, cycloalkyl, heteroaryl, heterocyclyl or heterocyclyenyl; R1 and R2 are independently absent, or H, alkyl, alkoxy, alkenyl, carbonyl, cycloalkyl, cycloalkenyl, alkylaryl, arylalkyl, aryl, amino, alkylamino, amidinyl, carboxamido, CN, OH, urea, etc.; R3, R4, R6, R29 are independently H, alkyl, alkylaryl, aralkyl, CN, CF3, haloalkyl, cycloalkyl, halo, hydroxyalkyl, etc.; R7 and R8 are independently H, alkyl, alkylaryl, heteroaryl, OH, CN, alkoxy, alkylamino, NHSO2 alkyl, NHCONH alkyl, or R7R8 taken together is O, S, NH, N(alkyl), N(O alkyl), NOH, or cycloalkyl; R10 is H, alkyl, cycloalkyl, (hetero)aryl, heterocyclyenyl, heterocyclyl, alkylaryl, arylalkyl, CO2H, hydroxyalkyl, etc.; R11 is H, alkyl, cycloalkyl, (hetero)aryl, heterocyclyl, heterocyclyenyl, alkylaryl, arylalkyl, hydroxyalkyl, carboxamide, CO2H, etc.; R12 is H, alkyl, CN, CONH2 and derivs., C1-5 alkyl-OH, alkyl ether, etc.; D is 5- to 9-membered cycloalkyl, cycloalkenyl, (hetero)aryl, heterocyclyenyl, or heterocyclyl; Y is (un)substituted alkyl, (un)substituted alkyl carbonyl, (un)substituted alkoxy, carbonyl, C-NH and derivs., etc.; m and n are independently 1 to 4; and their pharmaceutically acceptable salts, solvates and esters are claimed. Also disclosed is a method of treating chemokine mediated diseases, such as, palliative therapy, curative therapy, prophylactic therapy of certain diseases and conditions such as inflammatory diseases (non limiting example(s) include, psoriasis), autoimmune diseases (non limiting example(s) include, rheumatoid arthritis, multiple sclerosis), graft rejection (non limiting example(s) include, allograft rejection, xenograft rejection), infectious diseases (e.g., tuberculoïd leprosy), fixed drug eruptions, cutaneous delayed-type hypersensitivity responses, ophthalmic inflammation, type I diabetes, viral meningitis and tumors using a compound of formula I. Example compound II was prepared by amidation of 5,6-dichloronicotinic acid with ethylamine; the resulting amide underwent amination with 1-Boc-2(S)-ethyl-5(R)-methylpiperazine to give the 6-piperazinyl nicotinamide derivative, which underwent hydrolysis followed by reductive amination with 1-(4-chlorobenzyl)-4-piperidinone to give compound II. All the invention comps. were evaluated for their CXCR3 antagonistic activity. From the assay it was determined that most of the tested comps. exhibited CXCR3 antagonistic activity. Compound II exhibited an IC50 value of less than 25 nM, and compound II exhibited an IC50 value of 0.2 nM.

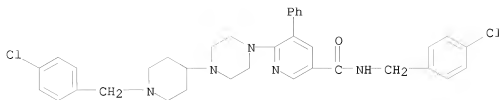
IT 906559-64-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of pyridyl and Ph substituted piperazine-piperidines with CXCR3 antagonist activity useful in treatment of diseases)

RN 906559-64-6 CAPLUS

CN 3-Pyridinecarboxamide, N-[(4-chlorophenyl)methyl]-6-[4-[[1-(4-chlorophenyl)methyl]-4-piperidinyl]-1-piperazinyl]-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:608560 CAPLUS

DOCUMENT NUMBER: 145:83228

TITLE: Preparation of pyrid-2-ones useful as inhibitors of Tec family protein kinases for the treatment of inflammatory, proliferative and immunologically-mediated diseases

INVENTOR(S): Charrier, Jean-Damien; Durrant, Steven; Ramaya, Sharn; Jimenez, Juan-Miguel; Rutherford, Alistair

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006065946	A1	20060622	WO 2005-US45336	20051215
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, LM, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2005316540	A1	20060622	AU 2005-316540	20051215
CA 2591413	A1	20060622	CA 2005-2591413	20051215
US 20060183911	A1	20060817	US 2005-304057	20051215
EP 1831168	A1	20070912	EP 2005-854119	20051215
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
JP 2008524233	T	20080710	JP 2007-546878	20051215
ZA 2007004971	A	20080925	ZA 2007-4971	20051215
MX 2007007330	A	20071004	MX 2007-7330	20070618
IN 2007KN02260	A	20070817	IN 2007-KN2260	20070619
NO 2007003628	A	20070716	NO 2007-3628	20070716
KR 2007095952	A	20071001	KR 2007-716337	20070716
CN 101111479	A	20080123	CN 2005-80047554	20070731
JP 2009062391	A	20090326	JP 2008-287171	20081107

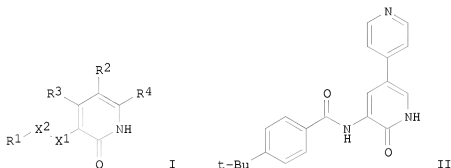
PRIORITY APPLN. INFO.:

US 2004-636754P	P	20041216
US 2005-673870P	P	20050422
JP 2007-546878	A3	20051215
WO 2005-US45336	W	20051215

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 145:83228; MARPAT 145:83228

GI

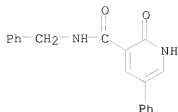


- AB The title compds. I [R³, R⁴ = H, halo or alkyl optionally substituted with halo, alkyl, OCH₃, NO₂, NH₂, CN, NHCH₃, SCH₃, or N(CH₃)₂; R² = 3-8 membered saturated, partially unsatd., or fully unsatd. monocyclic ring having 0-3 heteroatoms independently selected from N, O, or S, or 8-12 membered saturated, partially unsatd., or fully unsatd. bicyclic ring system having 0-5 heteroatoms independently selected from N, O, or S; X¹, X² = C(O), NR, or SO₂ (wherein one of X¹ or X² = NR and other of X¹ or X² = C(O) or SO₂); R¹ = TQ (T = a bond or alkylene wherein up to 3 methylene units are optionally replaced by O, S, CS, etc.; Q = H, alkyl, 3-8 membered saturated, partially unsatd., or fully unsatd. monocyclic ring having 0-3 heteroatoms independently selected from N, O, or S, or 8-12 membered saturated, partially unsatd., or fully unsatd. bicyclic ring system having 0-5 heteroatoms independently selected from N, O, or S)] which are effective as inhibitors of Tec family (e.g., Tec, Btk, Itk/Emt/Tsk, Bmx, Txk/Rlk) protein kinases, were prepared. Thus, reacting amrinone with 4-tert-butylbenzoyl chloride afforded 9% II which showed K_i between 0.1 μM and 1 μM against ITK.
- IT The compds. I and their pharmaceutically acceptable compns. are useful for treating or preventing a variety of diseases, disorders or conditions, including, but not limited to, an autoimmune, inflammatory, proliferative, or hyperproliferative disease or an immunol.-mediated disease.
- IT 893439-39-9P 893439-63-9P 893439-99-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyridones as inhibitors of Tec family protein kinases useful for treating and preventing inflammatory, proliferative, hyperproliferative, autoimmune or immunol.-mediated disease)

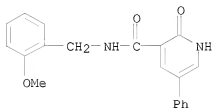
RN 893439-39-9 CAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-2-oxo-5-phenyl-N-(phenylmethyl)- (CA INDEX NAME)



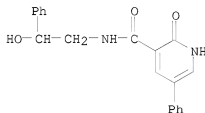
RN 893439-63-9 CAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-N-[(2-methoxyphenyl)methyl]-2-oxo-5-phenyl- (CA INDEX NAME)



RN 893439-99-1 CAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-N-(2-hydroxy-2-phenylethyl)-2-oxo-5-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:141021 CAPLUS

DOCUMENT NUMBER: 142:261788

TITLE: Preparation of aryl and heteroaryl amino acid derivatives as antagonists of factor IX and/or factor XI

INVENTOR(S): Mjalli, Adnan M. M.; Andrews, Robert C.; Guo, Xiao-Chuan; Christen, Daniel Peter; Gohimmukkula, Devi Reddy; Huang, Guoxiang; Rothlein, Robert; Tyagi, Sameer; Yaramasu, Tripura; Behme, Christopher

PATENT ASSIGNEE(S): Transtech Pharma, Inc., USA

SOURCE: PCT Int. Appl., 313 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005014533	A2	20050217	WO 2004-US25463	20040806
WO 2005014533	A3	20050407		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004263508	A1	20050217	AU 2004-263508	20040806
CA 2531796	A1	20050217	CA 2004-2531796	20040806
US 20050049310	A1	20050303	US 2004-913882	20040806
US 7501538	B2	20090310		
US 20050059713	A1	20050317	US 2004-913216	20040806
US 7459472	B2	20081202		
EP 1660439	A2	20060531	EP 2004-780318	20040806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR CN 1832920 A 20060913 CN 2004-80022750 20040806 JP 2007501844 T 20070201 JP 2006-523245 20040806 IN 2006KN00514 A 20081205 IN 2006-KN514 20060306				
PRIORITY APPLN. INFO.:				
			US 2003-493878P	P 20030808
			US 2003-493879P	P 20030808
			US 2003-493903P	P 20030808
			WO 2004-US25463	W 20040806

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 142:261788; MARPAT 142:261788

AB The invention relates to aryl and heteroaryl compds. Ar2-K [Ar2 is (un)substituted aryl, heteroaryl, fused cycloalkylaryl, fused cycloalkylheteroaryl, fused heterocyclylaryl or fused heterocyclylheteroaryl; K is a carbamoyl group of defined structure or Ar1-V-CH[(CH2)0-2-G]-X-, where G is H, CO2R1, CH2OR1, COR1, CR1:NOR2, CONR1R2, CONHNH2 or an acid or ester isostere and R1, R2 independently are H, alkyl, alkoxy, aryl, alkylaminoacyl, etc. or may combine to form a ring; V is (CH2)1-2-S-(CH2)0-2, (CH2)1-2-S, S-(CH2)0-2 (or corresponding sulfonyl derivs.), (CH2)1-2-O-(CH2)0-2, (CH2)1-2-NR7-(CH2)0-2, (CH2)1-2-O or a direct bond, where R7 is H, alkyl, aryl, etc. (the CH2 or CH2CH2 groups may be substituted); X is NR8, CONR8, NR8CO, NR8CONR9, O2CNR8, SO2NR8 or NR8SO2NR9, where R8, R9 are independently H, alkyl, aryl, etc.; Ar1 is a group as defined for Ar2] and their pharmaceutical compns. Compds. Ar2-K may be antagonists or partial antagonist of factor IX and/or factor XI and thus may be useful for inhibiting the intrinsic pathway of blood coagulation. Applications include the management, treatment and/or control of diseases caused in part by the intrinsic clotting pathway. Thus, (2S)-[5-bromo-2-(4-trifluoromethylbenzyloxy)benzylamino]-3-(2'-phenoxybiphenyl-4-yl)propionic acid, prepared by amidation and O-benzoylation reactions, inhibited factor IX or factor XI in the in vitro clotting assay with IC50 < 30 micromolar.

IT 845677-64-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

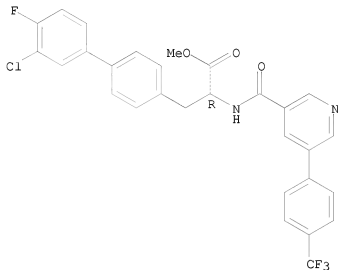
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aryl and heteroaryl amino acid derivs. as antagonists of factor IX and/or factor XI)

RN 845677-64-7 CAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3'-chloro-4'-fluoro- α -[[5-[4-(trifluoromethyl)phenyl]-3-pyridinyl]carbonyl]amino]-, methyl ester, (α R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:607 CAPLUS

DOCUMENT NUMBER: 142:93690

TITLE: Preparation of diphenylpyridine derivatives as antagonists of CB1 cannabinoid receptors and their therapeutic application

INVENTOR(S): Barth, Francis; Hortala, Laurent; Rinaldi, Carmona Murielle

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.

SOURCE: Fr. Demande, 31 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2856684	A1	20041231	FR 2003-7757	20030626
FR 2856684	B1	20080411		
AU 2004251914	A1	20050106	AU 2004-251914	20040624
CA 2528619	A1	20050106	CA 2004-2528619	20040624
WO 2005000817	A2	20050106	WO 2004-FR1581	20040624
WO 2005000817	A3	20050317		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1641758 A2 20060405 EP 2004-767437 20040624
 EP 1641758 B1 20081029
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
 BR 2004011762 A 20060808 BR 2004-11762 20040624
 CN 1832945 A 20060913 CN 2004-80022485 20040624
 JP 2007514638 T 20070607 JP 2006-516318 20040624
 AT 412635 T 20081115 AT 2004-767437 20040624
 MX 2005014222 A 20060313 MX 2005-14222 20051221
 US 20060189664 A1 20060824 US 2005-316510 20051222
 US 7345059 B2 20080318
 IN 2005KN02712 A 20061201 IN 2005-KN2712 20051226

PRIORITY APPLN. INFO.: FR 2003-7757 A 20030626
 WO 2004-FR1581 W 20040624

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 142:93690

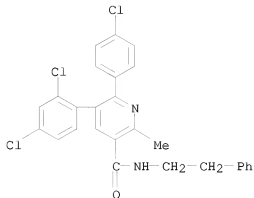
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = H, alkyl; R2 = alkyl, NH-alkyl and derivs., (un)substituted indan-1-yl, 1,2,3,4-tetrahydronaphthalen-1-yl, saturated mononitrogen- or monooxygen-containing heterocyclyl, etc.; or R1NR2 = mono- or disubstituted piperazin-1-yl in 4-position; R3, R4, R5, R6, R7, R8 = independently H, halo, alkyl, alkoxy, CF3; R9 = H, alkyl, CN, CH2OH, CH2O-alkyl; their free bases or acid addition salts, and their hydrates or solvates] were prepared as antagonists of CB1 cannabinoid receptors and for treatment of the diseases it implies. For instance, II (m.p. = 185°) was prepared by treating 5-(2,4-dichlorophenyl)-6-(4-chlorophenyl)-2-methylpyridine-3-carboxylic acid (preparation given) with SOCl2 at reflux for 2 h, followed by TEA-amidation with tert-butylamine in DCM. I exhibited an excellent affinity in vitro (IC50 ≤ 10⁻⁷ M) for the CB1 cannabinoid receptors. Thus, I are useful for treating psychosis, appetite and gastrointestinal disorders, smoking and alc. cessation, etc.

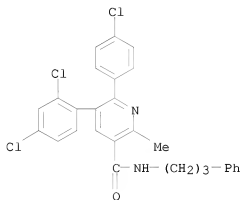
IT 817553-38-1P 817553-44-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (CB1 cannabinoid; preparation of diphenylpyridine derivs. as antagonists of CB1 cannabinoid receptors)

RN 817553-38-1 CAPUS
 CN 3-Pyridinecarboxamide, 6-(4-chlorophenyl)-5-(2,4-dichlorophenyl)-2-methyl-N-(2-phenylethyl)- (CA INDEX NAME)



RN 817553-44-9 CAPLUS

CN 3-Pyridinecarboxamide, 6-(4-chlorophenyl)-5-(2,4-dichlorophenyl)-2-methyl-N-(3-phenylpropyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:1156027 CAPLUS

DOCUMENT NUMBER: 142:219126

TITLE: Suzuki coupling reaction for the solid-phase preparation of 5-substituted nicotinic acid derivatives

AUTHOR(S): Fernandez, Joan-Carles; Sole-Feu, Laia; Fernandez-Forner, Dolors; de la Figuera, Natalia; Forns, Pilar; Albericio, Fernando

CORPORATE SOURCE: Almirall Prodesfarma-Barcelona Science Park Unit, Barcelona, 08028, Spain

SOURCE: Tetrahedron Letters (2005), 46(4), 581-585

CODEN: TELEAY; ISSN: 0040-4039

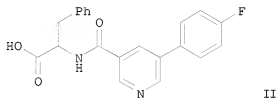
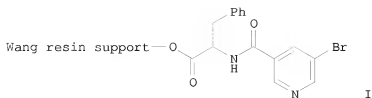
PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:219126

GI



AB The application of the Suzuki coupling reaction to the preparation of small combinatorial libraries using 5-(bromo)nicotinic acid as a scaffold onto three different types of solid support (Wang, Rink, and BAL resin) is described. For example, the Suzuki coupling of Wang resin-bound N-[(5-bromo-3-pyridinyl)carbonyl]-L-phenylalanine (I) with (4-fluorophenyl)boronic acid gave N-[[5-(4-fluorophenyl)-3-pyridinyl]carbonyl]-L-phenylalanine (II), after cleavage from the supporting resin.

IT 842170-46-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

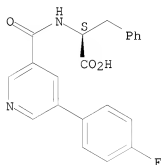
(preparation of N-[(phenyl)pyridinyl]carbonyl]phenylalanine by Suzuki coupling using Wang resin-bound

N-[(bromo)pyridinyl]carbonyl]phenylalanine and [(fluoro)phenyl]boronic acid derivative as starting materials)

RN 842170-46-1 CAPLUS

CN L-Phenylalanine, N-[[5-(4-fluorophenyl)-3-pyridinyl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry.

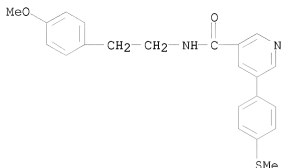


IT 842170-49-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of N-[(methoxy)phenyl]ethyl)[[(methyl)thio]phenyl]pyridinecarboxamide by Suzuki coupling using BAL resin-bound (bromo)nicotinamide and (aryl)boronic acid derivative as reactants)

RN 842170-49-4 CAPLUS
 CN 3-Pyridinecarboxamide, N-[2-(4-methoxyphenyl)ethyl]-5-[4-(methylthio)phenyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
 REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:997837 CAPLUS

DOCUMENT NUMBER: 142:212159

TITLE: High throughput screening of β -amyloid secretion inhibitors using homogeneous time-resolved fluorescence

AUTHOR(S): Albrecht, Hugo; Zbinden, Peter; Rizzi, Andrea; Villetti, Gino; Riccardi, Benedetta; Puccini, Paola; Catinella, Silvia; Imbimbo, Bruno P.

CORPORATE SOURCE: Integrated Drug Discovery Division, Discovery Partners International, Allschwil, CH-4123/1, Switz.

SOURCE: Combinatorial Chemistry and High Throughput Screening (2004), 7(8), 745-756

CODEN: CCHSFU; ISSN: 1386-2073

PUBLISHER: Bentham Science Publishers Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A cell-based assay using homogeneous time-resolved fluorescence has been developed for high throughput screening of putative β -amyloid ($A\beta$) production inhibitors. In this assay, total $A\beta$ is detected by simply adding two com. available antibody complexes. The first was a biotinylated monoclonal antibody (4G8), specifically recognizing an epitope comprising the residues 17-24 of the $A\beta$ peptide, complexed with europium cryptate-streptavidin conjugate. The second was a polyclonal antibody (BioS-N), raised against the N-terminus of the $A\beta$ peptide, complexed with an allophycocyanin-anti rabbit antibody conjugate. Binding of the two complexes to the $A\beta$ peptide brought europium cryptate (fluorescence donor) and allophycocyanin (fluorescence acceptor) into close proximity, consequently a fluorescent resonance energy transfer signal was produced upon excitation at 337 nm. The resulting fluorescence signal (665 nm) was then detected using a Discovery or a ViewLux reader. Detection of $A\beta$ by the proposed method is possible at concns. of approx. 1 nM. The method was employed for the detection of $A\beta$ secreted from a stable transfected human neuroglioma cell line (H4) overexpressing a mutated form of the human amyloid precursor protein (APP695NL) and developed for robotic automation. At optimized conditions,

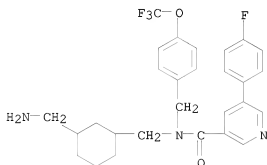
signal-to-background ratios exceeding 5 and Z' factors around 0.7 were achieved in a 384-well format. High throughput screening of 56,913 potential A β production inhibitors led to identification of new non-cytotoxic and cell permeable compds. with potencies in the submicromolar range.

IT 840530-44-1 840530-45-2 840530-46-3
840530-47-4 840530-48-5 840530-49-6
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
BIOL (Biological study)

(high throughput screening of β -amyloid secretion inhibitors using homogeneous time-resolved fluorescence)

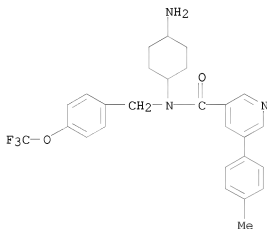
RN 840530-44-1 CAPLUS

CN 3-Pyridinecarboxamide, N-[[3-(aminomethyl)cyclohexyl]methyl]-5-(4-fluorophenyl)-N-[[4-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



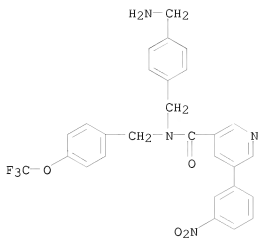
RN 840530-45-2 CAPLUS

CN 3-Pyridinecarboxamide, N-(4-aminocyclohexyl)-5-(4-methylphenyl)-N-[[4-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



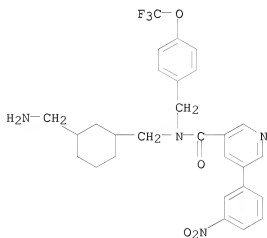
RN 840530-46-3 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-(aminomethyl)phenyl]methyl]-5-(3-nitrophenyl)-N-[[4-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



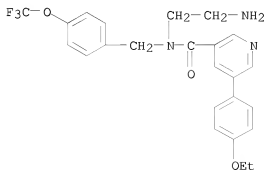
RN 840530-47-4 CAPLUS

CN 3-Pyridinecarboxamide, N-([3-(aminomethyl)cyclohexyl]methyl)-5-(3-nitrophenyl)-N-([4-(trifluoromethoxy)phenyl]methyl)- (CA INDEX NAME)

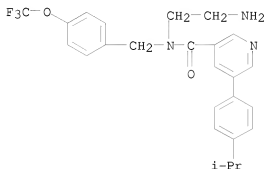


RN 840530-48-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(2-aminoethyl)-5-(4-ethoxyphenyl)-N-([4-(trifluoromethoxy)phenyl]methyl)- (CA INDEX NAME)



RN 840530-49-6 CAPLUS
 CN 3-Pyridinecarboxamide, N-(2-aminoethyl)-5-[4-(1-methylethyl)phenyl]-N-[[4-(trifluoromethoxy)phenyl]methyl]- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

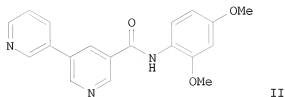
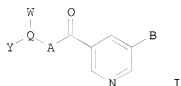
L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2004:534176 CAPLUS
 DOCUMENT NUMBER: 141:89017
 TITLE: A preparation of nicotinamide-based tyrosine kinase inhibitors
 INVENTOR(S): Burns, Christopher John; Kling, Marcel Robert
 PATENT ASSIGNEE(S): Cytopia Pty. Ltd., Australia
 SOURCE: PCT Int. Appl., '71 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004054977	A1	20040701	WO 2003-AU1666	20031215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2508171	A1	20040701	CA 2003-2508171	20031215
AU 2003291839	A1	20040709	AU 2003-291839	20031215
AU 2003291839	B2	20090122		
EP 1569907	A1	20050907	EP 2003-767297	20031215
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006510737	T	20060330	JP 2005-502389	20031215
US 20070060619	A1	20070315	US 2006-537719	20061011
PRIORITY APPLN. INFO.:			AU 2002-953330	A 20021213
			AU 2002-953385	A 20021217

US 2003-483400P P 20030626
 WO 2003-AU1666 W 20031215

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 141:89017

GI



AB The invention relates to a preparation of nicotinamide derivs. of formula I [wherein: A is O, S, NH, or N-C1-4alkyl; B is (un)substituted (hetero)aryl; Q is a bond or C1-4alkyl; W is H, (un)substituted C1-4alkyl or C2-6alkenyl; Y is H or (un)substituted (hetero)aryl], useful as kinase inhibitors. Compds. of formula I are useful in the treatment of tyrosine kinase-associated diseases such as carcinoma, cancer, and Alzheimer disease. For instance, pyridineamide derivative II at a concentration of 10 μM inhibited

50% or greater of jak2, jak3, and fms enzyme activities.

IT	713520-01-5P	713520-19-5P	713520-29-7P
	713520-36-6P	713520-43-5P	713520-93-5P
	713521-06-3P	713521-13-2P	713521-36-9P
	713521-39-2P	713521-44-9P	713521-49-4P
	713521-62-1P	713521-67-6P	713521-81-4P
	713521-90-5P	713521-93-8P	713522-03-3P
	713522-10-2P	713522-13-5P	713522-24-8P
	713522-33-9P	713522-45-3P	713522-51-1P
	713522-53-3P	713522-66-8P	713522-74-8P
	713522-77-1P	713522-79-3P	713522-81-7P
	713522-88-4P	713522-91-9P	713522-93-1P
	713523-24-1P	713523-25-2P	713523-29-6P
	713523-32-1P	713523-33-2P	713523-35-4P
	713523-42-3P	713523-43-4P	713523-44-5P
	713523-45-6P	713523-48-9P	713523-50-3P
	713523-51-4P	713523-52-5P	713523-53-6P
	713523-57-0P		

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

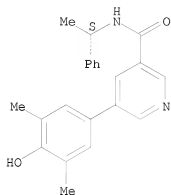
(preparation of nicotinamide-based kinase inhibitors)

RN 713520-01-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

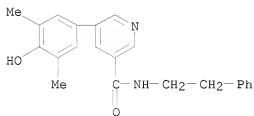
10/537,719

Absolute stereochemistry.



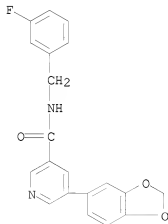
RN 713520-19-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-(2-phenylethyl)-
(CA INDEX NAME)



RN 713520-29-7 CAPLUS

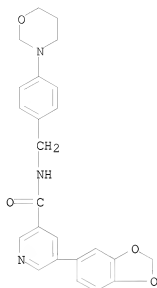
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(3-fluorophenyl)methyl]-
(CA INDEX NAME)



RN 713520-36-6 CAPLUS

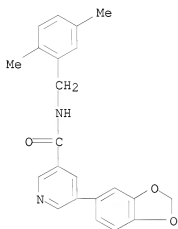
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(4-(dihydro-2H-1,3-oxazin-3(4H)-yl)phenyl)methyl]- (CA INDEX NAME)

10/537,719



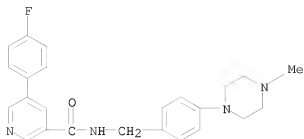
RN 713520-43-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(2,5-dimethylphenyl)methyl]- (CA INDEX NAME)



RN 713520-93-5 CAPLUS

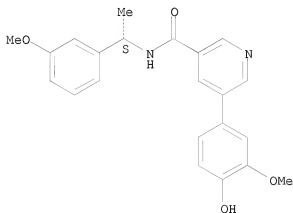
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[[4-(4-methyl-1-piperazinyl)phenyl]methyl]- (CA INDEX NAME)



RN 713521-06-3 CAPLUS

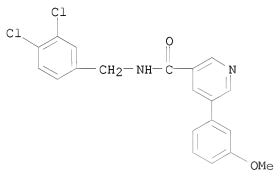
CN 3-Pyridinecarboxamide, 5-((4-hydroxy-3-methoxyphenyl)-N-[(1S)-1-(3-methoxyphenyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 713521-13-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dichlorophenyl)methyl]-5-((3-methoxyphenyl)- (CA INDEX NAME)

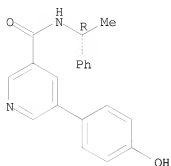


RN 713521-36-9 CAPLUS

CN 3-Pyridinecarboxamide, 5-((4-hydroxyphenyl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

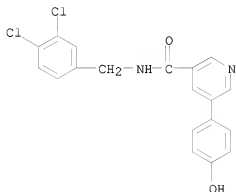
Absolute stereochemistry.

10/537,719



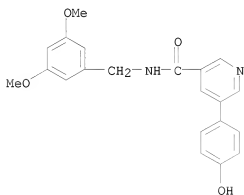
RN 713521-39-2 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,4-dichlorophenyl)methyl]-5-(4-hydroxyphenyl)-
(CA INDEX NAME)



RN 713521-44-9 CAPLUS

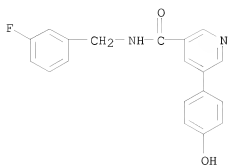
CN 3-Pyridinecarboxamide, N-[(3,5-dimethoxyphenyl)methyl]-5-(4-hydroxyphenyl)-
(CA INDEX NAME)



RN 713521-49-4 CAPLUS

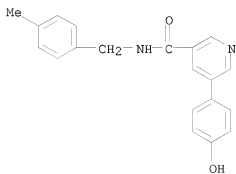
CN 3-Pyridinecarboxamide, N-[(3-fluorophenyl)methyl]-5-(4-hydroxyphenyl)-
(CA INDEX NAME)

10/537,719



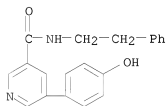
RN 713521-62-1 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-hydroxyphenyl)-N-[(4-methylphenyl)methyl]-
(CA INDEX NAME)



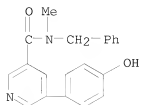
RN 713521-67-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-hydroxyphenyl)-N-(2-phenylethyl)- (CA INDEX
NAME)



RN 713521-81-4 CAPLUS

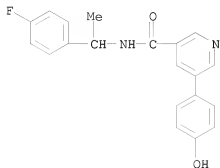
CN 3-Pyridinecarboxamide, 5-(4-hydroxyphenyl)-N-methyl-N-(phenylmethyl)- (CA
INDEX NAME)



10/537,719

RN 713521-90-5 CAPLUS

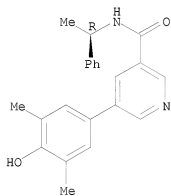
CN 3-Pyridinecarboxamide, N-[1-(4-fluorophenyl)ethyl]-5-(4-hydroxyphenyl)-
(CA INDEX NAME)



RN 713521-93-8 CAPLUS

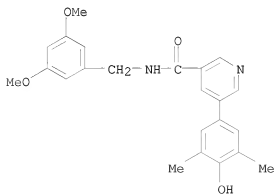
CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



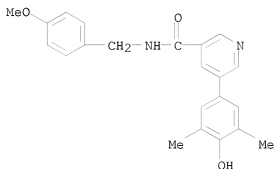
RN 713522-03-3 CAPLUS

CN 3-Pyridinecarboxamide, N-[(3,5-dimethoxyphenyl)methyl]-5-(4-hydroxy-3,5-dimethylphenyl)- (CA INDEX NAME)



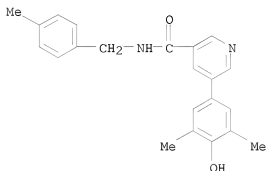
RN 713522-10-2 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



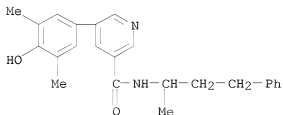
RN 713522-13-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)



RN 713522-24-8 CAPLUS

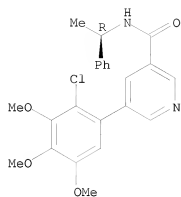
CN 3-Pyridinecarboxamide, 5-(4-hydroxy-3,5-dimethylphenyl)-N-(1-methyl-3-phenylpropyl)- (CA INDEX NAME)



RN 713522-33-9 CAPLUS

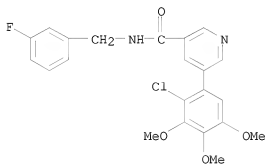
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



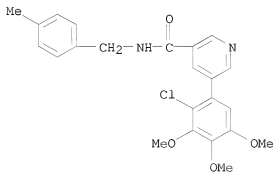
RN 713522-45-3 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-[(3-fluorophenyl)methyl]- (CA INDEX NAME)



RN 713522-51-1 CAPLUS

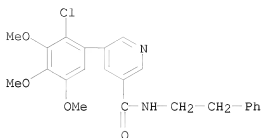
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)



RN 713522-53-3 CAPLUS

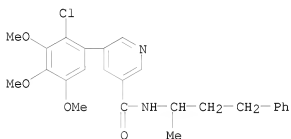
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(2-phenylethyl)- (CA INDEX NAME)

10/537,719



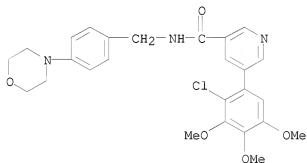
RN 713522-66-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-(1-methyl-3-phenylpropyl)- (CA INDEX NAME)



RN 713522-74-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-[[4-(4-morpholinyl)phenyl]methyl]- (CA INDEX NAME)

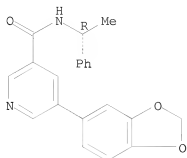


RN 713522-77-1 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

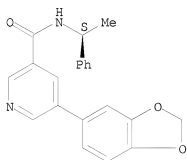
10/537,719



RN 713522-79-3 CAPLUS

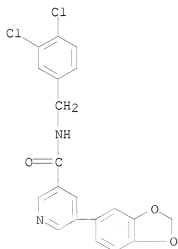
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(1S)-1-phenylethyl]-
(CA INDEX NAME)

Absolute stereochemistry.



RN 713522-81-7 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(3,4-dichlorophenyl)methyl]- (CA INDEX NAME)

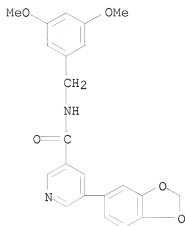


RN 713522-88-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(3,5-

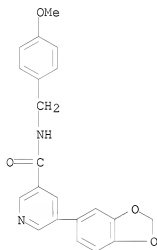
10/537,719

dimethoxyphenyl)methyl]- (CA INDEX NAME)



RN 713522-91-9 CAPLUS

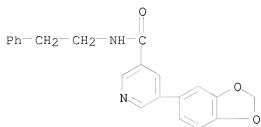
CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



RN 713522-93-1 CAPLUS

CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-N-(2-phenylethyl)- (CA INDEX NAME)

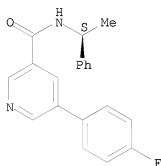
10/537,719



RN 713523-24-1 CAPLUS

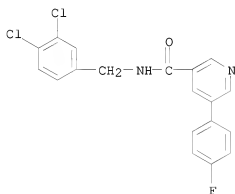
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 713523-25-2 CAPLUS

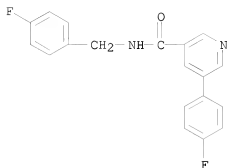
CN 3-Pyridinecarboxamide, N-[(3,4-dichlorophenyl)methyl]-5-(4-fluorophenyl)- (CA INDEX NAME)



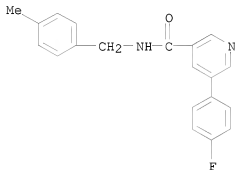
RN 713523-29-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[(4-fluorophenyl)methyl]- (CA INDEX NAME)

10/537,719

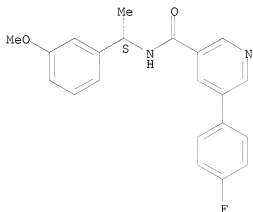


RN 713523-32-1 CAPLUS
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)



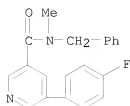
RN 713523-33-2 CAPLUS
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[(1S)-1-(3-methoxyphenyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



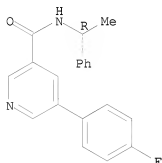
RN 713523-35-4 CAPLUS
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-methyl-N-(phenylmethyl)- (CA INDEX NAME)

10/537,719

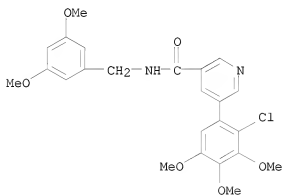


RN 713523-42-3 CAPLUS
CN 3-Pyridinecarboxamide, 5-(4-fluorophenyl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



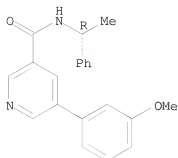
RN 713523-43-4 CAPLUS
CN 3-Pyridinecarboxamide, 5-(2-chloro-3,4,5-trimethoxyphenyl)-N-[(3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)



RN 713523-44-5 CAPLUS
CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

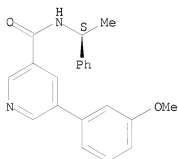
10/537,719



RN 713523-45-6 CAPLUS

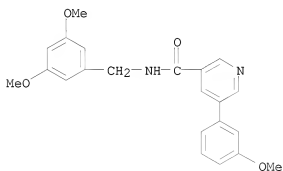
CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 713523-48-9 CAPLUS

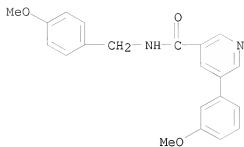
CN 3-Pyridinecarboxamide, N-[(3,5-dimethoxyphenyl)methyl]-5-(3-methoxyphenyl)- (CA INDEX NAME)



RN 713523-50-3 CAPLUS

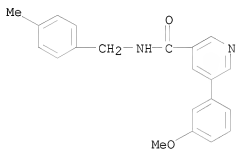
CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-[(4-methoxyphenyl)methyl]- (CA INDEX NAME)

10/537,719



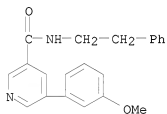
RN 713523-51-4 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-[(4-methylphenyl)methyl]-
(CA INDEX NAME)



RN 713523-52-5 CAPLUS

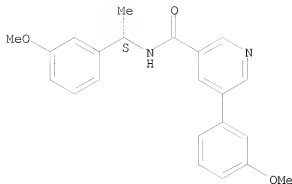
CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-(2-phenylethyl)- (CA INDEX
NAME)



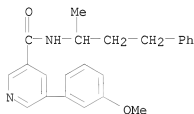
RN 713523-53-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-[(1S)-1-(3-methoxyphenyl)ethyl]-
(CA INDEX NAME)

Absolute stereochemistry.



RN 713523-57-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(3-methoxyphenyl)-N-(1-methyl-3-phenylpropyl)-
(CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:453614 CAPLUS

DOCUMENT NUMBER: 141:173950

TITLE: A Fluorous-Tagged, Acid-Labile Protecting Group for
the Synthesis of Carboxamides and SulfonamidesAUTHOR(S): Villard, Anne-Laure; Warrington, Brian H.; Ladlow,
MarkCORPORATE SOURCE: University Chemical Laboratory, GlaxoSmithKline
Cambridge Technology Centre, Cambridge, CB2 1EW, UK
SOURCE: Journal of Combinatorial Chemistry (2004), 6(4),
611-622

CODEN: JCCHFF; ISSN: 1520-4766

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

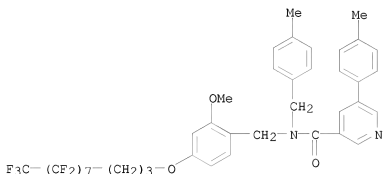
LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:173950

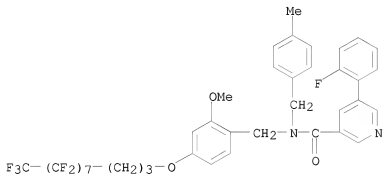
AB A new acid-labile, fluororous-tagged protecting group that facilitates the
preparation of carboxamides and sulfonamides by parallel solution-phase
synthesis

is introduced. Its use is exemplified by the preparation of a 27-member
library of biaryl sulfonamides and an 18-member library of biaryl
carboxamides. Intermediates were purified by solid-phase extraction over
reversed-phase fluororous silica gel to afford library members in high
yields and purities (>95%) without the need for column chromatog. purification

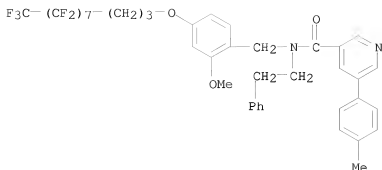
IT 734549-12-3P 734549-13-4P 734549-18-9P
 734549-19-0P 734549-24-7P 734549-25-8P
 RL: CPN (Combinatorial preparation); CRT (Combinatorial reactant); RCT (Reactant); CMBI (Combinatorial study); PREP (Preparation); RACT (Reactant or reagent)
 (N-deprotection; parallel solution-phase synthesis of carboxamides and sulfonamides using a fluororous-tagged acid-labile protecting group)
 RN 734549-12-3 CAPLUS
 CN 3-Pyridinecarboxamide, N-[[4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptaecafluoroundecyl)oxy]-2-methoxyphenyl)methyl]-5-(4-methylphenyl)-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)



RN 734549-13-4 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(2-fluorophenyl)-N-[[4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptaecafluoroundecyl)oxy]-2-methoxyphenyl)methyl]-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)

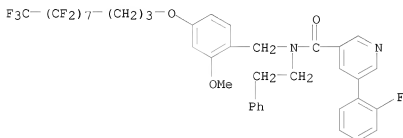


RN 734549-18-9 CAPLUS
 CN 3-Pyridinecarboxamide, N-[[4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptaecafluoroundecyl)oxy]-2-methoxyphenyl)methyl]-5-(4-methylphenyl)-N-(2-phenylethyl)- (CA INDEX NAME)



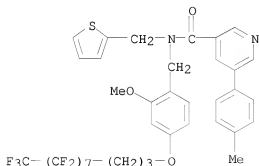
RN 734549-19-0 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-fluorophenyl)-N-[[4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)oxy]-2-methoxyphenyl]methyl]-N-(2-phenylethyl)- (CA INDEX NAME)



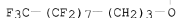
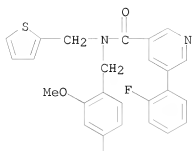
RN 734549-24-7 CAPLUS

CN 3-Pyridinecarboxamide, N-[[4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)oxy]-2-methoxyphenyl]methyl]-5-(4-methylphenyl)-N-(2-thienylmethyl)- (CA INDEX NAME)



RN 734549-25-8 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-fluorophenyl)-N-[[4-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecyl)oxy]-2-methoxyphenyl]methyl]-N-(2-thienylmethyl)- (CA INDEX NAME)



IT 734549-30-5P 734549-31-6P 734549-36-1P

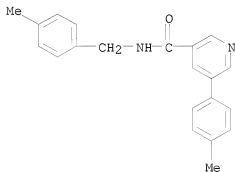
734549-37-2P

RL: CPN (Combinatorial preparation); CMBI (Combinatorial study); PREP (Preparation)

(parallel solution-phase synthesis of carboxamides and sulfonamides using a fluororous-tagged acid-labile protecting group)

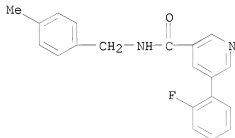
RN 734549-30-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-methylphenyl)-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)



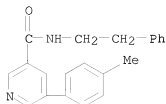
RN 734549-31-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(2-fluorophenyl)-N-[(4-methylphenyl)methyl]- (CA INDEX NAME)

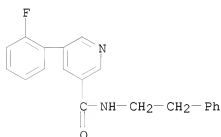


RN 734549-36-1 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-methylphenyl)-N-(2-phenylethyl)- (CA INDEX NAME)



RN 734549-37-2 CAPLUS
 CN 3-Pyridinecarboxamide, 5-(2-fluorophenyl)-N-(2-phenylethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2003:796416 CAPLUS
 DOCUMENT NUMBER: 139:307686
 TITLE: Preparation of 2,3-diphenylpyridines as cannabinoid-1 receptor antagonists and inverse agonists
 INVENTOR(S): Finke, Paul E.; Meurer, Laura C.; Debenham, John S.; Toupenec, Richard B.; Walsh, Thomas F.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 211 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082191	A2	20031009	WO 2003-US9005	20030324
WO 2003082191	A3	20040115		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,

	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,	
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
CA 2479744	A1 20031009	CA 2003-2479744 20030324
AU 2003225964	A1 20031013	AU 2003-225964 20030324
AU 2003225964	B2 20081120	
EP 1492784	A2 20050105	EP 2003-745578 20030324
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,		
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		
JP 2005531520	T 20051020	JP 2003-579734 20030324
US 20050182103	A1 20050818	US 2004-508043 20040917
US 7271266	B2 20070918	

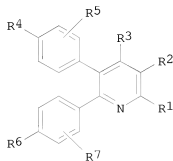
PRIORITY APPLN. INFO.:

US 2002-368334P	P 20020328
WO 2003-US9005	W 20030324

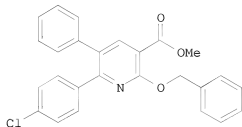
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 139:307686

GI



I



II

AB Title compds. I [wherein R¹ = H, halo, CN, or (un)substituted alkyl, heterocycloalkyl(alkyl), heteroaryl, (hetero)arylalkyl, acyl, carboxy, (thio)ether, amino, carbamoyl, acylamino, carboxyamino, or ureido; R² = H, CN, carboxy, halo, NO₂, CF₃, or (un)substituted carbamoyl; provided that R¹ and R² are not both H; R³ = H, CF₃, or (un)substituted (cyclo)alkyl; R⁴-R⁷ = independently H, halo, amino, carboxy, alkyl, alkoxy, aryl(alkyl), OH, CF₃, alkanoyloxy, or carbamoyloxy; provided that R⁶ and R⁷ are not both H; and pharmaceutically acceptable salts thereof] were prepared as cannabinoid-1 (CB1) receptor antagonists and/or inverse agonists (no data). For example, benzyl 4-chlorophenyl ketone was condensed with DMF dimethylacetal in DMF to give 3-(dimethylamino)-1-(4-chlorophenyl)-2-phenylprop-2-en-1-one. Cyclocondensation of the vinyl ketone with cyanoacetamide using NaH in DMF and MeOH provided the 3-cyano-2-pyridone. Conversion of the nitrile to the carboxylic acid with 50% H₂SO₄, followed by esterification using HCl in MeOH gave Me 6-(4-chlorophenyl)-5-phenyl-2-oxo-1,2-dihydropyridine-3-carboxylate.

O-alkylation of the pyridone with benzyl bromide in the presence of Cs₂CO₃ in DMF afforded the title 2,3-diphenylpyridine II. Compds. of the invention and their pharmaceutical compns. serve as centrally acting drugs for the treatment, prevention, and suppression of diseases mediated by the CB₁ receptor, such as psychosis, memory deficits, cognitive disorders, migraine, neuropathy, neuro-inflammatory disorders including multiple sclerosis and Guillain-Barre syndrome, the inflammatory sequelae of viral encephalitis, cerebral vascular accidents, and head trauma, anxiety disorders, stress, epilepsy, Parkinson's disease, movement disorders, and schizophrenia (no data). I are also useful for the treatment of substance abuse disorders, obesity or eating disorders, asthma, constipation, chronic intestinal pseudo-obstruction, and cirrhosis of the liver (no data).

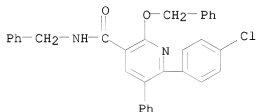
IT 611218-14-5P, N-Benzyl-2-(benzyloxy)-6-(4-chlorophenyl)-5-phenylpyridine-3-carboxamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(CB₁ modulator; preparation of diphenylpyridines as CB₁ antagonists and inverse agonists for treatment of eating disorders and other CB₁ mediated diseases)

RN 611218-14-5 CAPLUS

CN 3-Pyridinecarboxamide, 6-(4-chlorophenyl)-5-phenyl-2-(phenylmethoxy)-N-(phenylmethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:428866 CAPLUS

DOCUMENT NUMBER: 137:20297

TITLE: Preparation of ortho-substituted and meta-substituted bisaryl compounds as potassium channel blockers
 INVENTOR(S): Peukert, Stefan; Brendel, Joachim; Hemmerle, Horst; Kleemann, Heinz-Werner

PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany

SOURCE: PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044137	A1	20020606	WO 2001-EP13294	20011117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

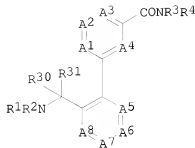
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
 VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10059418	A1	20020620	DE 2000-10059418	20001130
CA 2430273	A1	20020606	CA 2001-2430273	20011117
AU 2002027931	A	20020611	AU 2002-27931	20011117
EE 200300183	A	20030616	EE 2003-183	20011117
EP 1339675	A1	20030903	EP 2001-989479	20011117
EP 1339675	B1	20050216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001015769	A	20040113	BR 2001-15769	20011117
HU 2003003317	A2	20040128	HU 2003-3317	20011117
CN 1494527	A	20040505	CN 2001-819740	20011117
CN 1290825	C	20061220		
JP 2004514707	T	20040520	JP 2002-546507	20011117
JP 4051283	B2	20080220		
NZ 526177	A	20041126	NZ 2001-526177	20011117
AT 289292	T	20050315	AT 2001-989479	20011117
PT 1339675	E	20050429	PT 2001-989479	20011117
ES 2236341	T3	20050716	ES 2001-989479	20011117
RU 2278858	C2	20060627	RU 2003-119153	20011117
AU 2002227931	B2	20060713	AU 2002-227931	20011117
SK 286708	B6	20090305	SK 2003-653	20011117
TW 254039	B	20060501	TW 2001-90129358	20011128
US 20030013719	A1	20030116	US 2001-995771	20011129
US 6605625	B2	20030812		
MX 2003004386	A	20030904	MX 2003-4386	20030519
ZA 2003003893	A	20040415	ZA 2003-3893	20030520
NO 2003002438	A	20030709	NO 2003-2438	20030528
IN 2003CN00830	A	20050422	IN 2003-CN830	20030528
HR 2003000436	B1	20060430	HR 2003-436	20030529
US 20030225099	A1	20031204	US 2003-453646	20030604
US 6924392	B2	20050802		
HK 1061231	A1	20070511	HK 2004-104352	20040616
PRIORITY APPLN. INFO.:			DE 2000-10059418	A 20001130
			WO 2001-EP13294	W 20011117
			US 2001-995771	A3 20011129

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

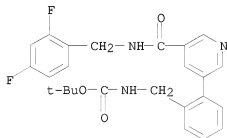
OTHER SOURCE(S): MARPAT 137:20297

GI



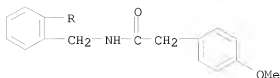
I

- AB Title compds. [I; A1-A8 = N, CH, CR5; whereby >4 of A1-A8 = CH; R1 = CO2R9, SO2R10, COR11, C(O)NR12R13, C(S)NR12R13; R9-R12 = CxH2xR14; x = 0-4; R14 = alkyl, cycloalkyl, CF3, C2F5, C3F7, CH2F, CHF2, OR15, SO2Me, (substituted) Ph, naphthyl, etc.; R15 = alkyl, cycloalkyl, (substituted) Ph; R13 = H, alkyl, CF3; R2 = H, alkyl, CF3; R3 = CyH2yR16, etc.; y = 0-4; R16 = alkyl, cycloalkyl, CF3, C2F5, C3F7, CH2F, CHF2, OR17, SO2Me, (substituted) Ph, naphthyl, etc.; R17 = H, alkyl, cycloalkyl, (substituted) Ph, pyridyl; R4 = H, alkyl, CF3; or R3R4 = (O-, S-, NH-, N(methyl)-, N(benzyl)-interrupted) C4-5 alkylene; R5 = F, Cl, Br, I, CF3, NO2, cyano, CO2Me, COMe, amino, OH, alkyl, alkoxy, etc.; R30, R31 = H, alkyl; or R30R31 = C2 alkylene], were prepared Thus, 1-[6-(2-aminomethylphenyl)pyridin-2-yl]-N-(4-methoxyphenyl)amide in CH2Cl2 was stirred with 4-methoxyphenylacetyl chloride and N-ethyldiisopropylamine overnight to give 78% 1-[6-(2-[2-(4-methoxyphenyl)acetylamino]methylphenyl)pyridin-2-yl]-N-(4-methoxyphenyl)amide. Several I inhibited Kv1.5 human channel with IC50 = 2 - <100 μ M.
- IT 433969-45-0P 433969-65-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of ortho-substituted and meta-substituted bisaryl compds. as potassium channel blockers)
- RN 433969-45-0 CAPLUS
- CN Carbamic acid, [[2-[5-[[[(2,4-difluorophenyl)methyl]amino]carbonyl]-3-pyridinyl]phenyl)methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

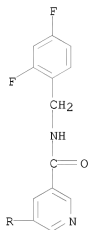


- RN 433969-65-4 CAPLUS
- CN 3-Pyridinecarboxamide, N-[(2,4-difluorophenyl)methyl]-5-[2-[[[2-(4-methoxyphenyl)acetyl]amino]methyl]phenyl]- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1997:226815 CAPLUS

DOCUMENT NUMBER: 126:212156

ORIGINAL REFERENCE NO.: 126:41031a, 41034a

TITLE: Preparation of heteroarylcarboxamides as agrochemical
and medical fungicides

INVENTOR(S): Bartroli, Javier; Turmo, Enric; Anguita, Manuel

PATENT ASSIGNEE(S): J. Uriach & Cia. S.A., Spain

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9705131	A1	19970213	WO 1996-EP3419	19960802
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM				

ES 2107376	A1	19971116	ES 1995-1564	19950802
ES 2107376	B1	19980701		
BR 9606546	A	19980714	BR 1996-6546	19950802
ES 2112774	A1	19980401	ES 1995-2042	19951020
ES 2112774	B1	19990516		
CA 2201478	A1	19970213	CA 1996-2201478	19960802
AU 9667889	A	19970226	AU 1996-67889	19960802
EP 783502	A1	19970716	EP 1996-928404	19960802

R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 10507205	T	19980714	JP 1996-507253	19960802
US 5888941	A	19990330	US 1997-809815	19970331
NO 9701471	A	19970530	NO 1997-1471	19970401

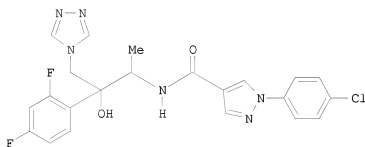
PRIORITY APPLN. INFO.:

ES 1995-1564	A	19950802
ES 1995-2042	A	19951020
WO 1996-EP3419	W	19960802

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 126:212156

GI



II

AB RCH₂CR₅(OR₄)CR₁R₂NR₃COZ₁(CH₂)_mZ₂(CH₂)_qR₆ [I; R = imidazolo or 1,2,4-triazolo-1-yl; R₁ = alkyl; R₂ = H or alkyl; R₁R₂ = alkylenes; R₃ = H (halo)alkyl, Ph, etc.; R₄ = H; R₃R₄ = CH₂, CH₂CH₂, CH(OH)CH₂, COCH₂; R₅ = (halo- or CF₃-substituted) Ph; R₆ = (un)substituted Ph, -heterocyclyl; Z₁ = (un)substituted phenylene or -heterocyclylene; Z₂ = bond, O, SOO-2, NR₆; m, q = 0-2] were prepared. Thus, (2R,3R)-3-amino-2-(2,4-difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)-2-butanol was amidated by 1-(4-chlorophenyl)-1H-pyrazole-4-carboxylic acid (preparation given) to give title compound (R,R)-II. Data for biol. activity of I were given.

IT 187998-12-5P

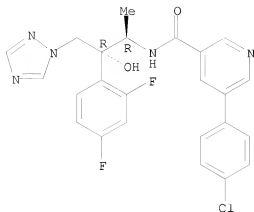
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heteroarylcarboxamides as agrochem. and medical fungicides)

RN 187998-12-5 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-N-[(1R,2R)-2-(2,4-difluorophenyl)-2-hydroxy-1-methyl-3-(1H-1,2,4-triazol-1-yl)propyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(20 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1983:198028 CAPLUS

DOCUMENT NUMBER: 98:198028

ORIGINAL REFERENCE NO.: 98:30095a,30098a

TITLE: Pyridine derivatives inducing tillering and

agricultural compositions containing them

INVENTOR(S): Stacey, Gilbert Joseph; Hawkins, Alan Francis;
Pearson, David Philip John; Sunley, Raymond Leo

PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK

SOURCE: Eur. Pat. Appl., 40 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

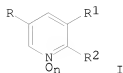
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 67511	A2	19821222	EP 1982-302208	19820429
EP 67511	A3	19830406		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
GB 2099421	A	19821208	GB 1982-12420	19820419
AU 8283671	A	19821125	AU 1982-83671	19820513
US 4473395	A	19840925	US 1982-379047	19820517
BR 8202876	A	19830426	BR 1982-2876	19820518
JP 57197267	A	19821203	JP 1982-83339	19820519
PRIORITY APPLN. INFO.:			GB 1981-15251	A 19810519
			GB 1981-15252	A 19810519
			GB 1981-24941	A 19810814
			GB 1982-12420	A 19820419
			EP 1982-302208	A 19820429

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 98:198028; MARPAT 98:198028

GI



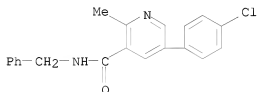
AB Phenylpyridine I [R = Ph, substituted Ph; R1 = cyano, carboxy, alkoxy, carbonyl, alkylthiocarbonyl, carbamoyl; R2 = H, halogen, (un)substituted alkyl, OH, NH2, Ph, alkoxy, carbonyl; n = 0, 1] were prepared. Thus 4-ClC6H4CH2CO2H was treated with POCl3-DMF to give Me2NCH: C(CHO)C6H4Cl-4, which was cyclized with H2NCMe:CHCO2Et to form I (R = C6H4Cl-4; R1 = CO2Et; R2 = Me, n = 0) (II). II gave 132% of control barley tillering at 3 kg/ha.

IT 85583-04-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and tillering-inducing activity of)

RN 85583-04-6 CAPLUS

CN 3-Pyridinecarboxamide, 5-(4-chlorophenyl)-2-methyl-N-(phenylmethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1974:70803 CAPLUS

DOCUMENT NUMBER: 80:70803

ORIGINAL REFERENCE NO.: 80:11435a,11438a

TITLE: Ampicillin derivatives substituted with heterocyclic acyl groups

INVENTOR(S): Murakami, Masuo; Isaka, Ichiro; Koda, Akio; Kawahara, Norio; Kashiwagi, Teruya; Ageo, Murakami; Yukiyasu, Urawa; Yano, Kanichiro; Nakano, Kohzo; Souzu, Isao Yamanouchi Pharmaceutical Co., Ltd.

PATENT ASSIGNEE(S):

SOURCE: Ger. Offen., 107 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2322750	A1	19731129	DE 1973-2322750	19730505
JP 49001592	A	19740108	JP 1972-45118	19720508
JP 55047036	B	19801127		
JP 49041396	A	19740418	JP 1972-83424	19720821
JP 49042692	A	19740422	JP 1972-85102	19720825

JP 49042693	A	19740422	JP 1972-85103	19720825
JP 49081388	A	19740806	JP 1972-125952	19721215
JP 49108092	A	19741014	JP 1973-19917	19730218
JP 49125386	A	19741130	JP 1973-38132	19730404
AU 7355045	A	19741107	AU 1973-55045	19730501
US 3953428	A	19760427	US 1973-356120	19730501
BE 799202	Al	19730831	BE 1973-130836	19730507
AT 7303995	A	19751215	AT 1973-3995	19730507
AT 331970	B	19760910		
DK 139754	B	19790409	DK 1973-2489	19730507
DK 139754	C	19790924		
FI 58131	B	19800829	FI 1973-1458	19730507
FI 58131	C	19801210		
FR 2183895	Al	19731221	FR 1973-16416	19730508
GB 1407566	A	19750924	GB 1973-21951	19730508

PRIORITY APPLN. INFO.:

JP 1972-45118	A	19720508
JP 1972-83424	A	19720821
JP 1972-85102	A	19720825
JP 1972-85103	A	19720825
JP 1972-125952	A	19721215
JP 1973-19917	A	19730218
JP 1973-38132	A	19730404

AB The ampicillin derivs. I (R = 1,4-dihydro-4-oxo-3-quinolinyl, substituted by alkyl, halo, nitro, or amino groups; substituted 4-oxonaphthyridin-3-yl, oxopyridinyl, hydroxypyridinyl, 2,4-dioxo-5-pyrimidinyl, oxopyranyl; R1 = Na, K) (>70 compds.) were prepared by treating ampicillin triethylamine salt with RCO₂H, and forming the Na or K salt. Most I showed a min. inhibitory concentration against *Pseudomonas aeruginosa* of 10 γ /ml.

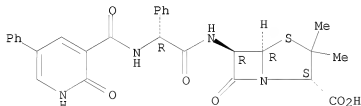
IT 51726-97-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 51726-97-7 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid,
6-[[[(1,2-dihydro-2-oxo-5-phenyl-3-pyridinyl)carbonyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-,
monosodium salt, [2S-[2 α ,5 α ,6 β (S*)]]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



● Na

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(6 CITINGS)

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1962:73420 CAPLUS

DOCUMENT NUMBER: 56:73420
 ORIGINAL REFERENCE NO.: 56:14235d-i,14236a-i,14237a-i,14238a-i,14239a-d
 TITLE: Synthesis of benzo[f]quinolines and ergolines from 5-phenyl-6-methyl-2-pyridones
 AUTHOR(S): Walker, Gordon N.; Weaver, Barbara N.
 CORPORATE SOURCE: Ciba Pharm. Prods., Inc., Summit, NJ
 SOURCE: Journal of Organic Chemistry (1961), 26, 4441-55
 CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 56:73420

GI For diagram(s), see printed CA Issue.

AB Dry MeONa (freshly prepared from 69 g. Na) powdered, suspended in 1 l. anhydrous

Et₂O, the mixture treated with 380 g. PhCH₂Ac (I) and 300 g. HCO₂Et (II) in 500 ml. anhydrous Et₂O with swirling and cooling in ice, when the MeONa had dissolved the solution kept overnight at room temperature (moisture excluded), treated with 1.5 l. H₂O, the washed aqueous solution acidified with dilute HCl, and the product isolated with Et₂O gave 400 mg. PhCac:CHOH (III), oil which crystallized after several weeks storage at 0° in a closed container, m. 69-71° (Et₂O). I (81 g.) and 96 g. (EtO₂C)₂ (IV) condensed as above with dry MeONa (from 16 g. Na) in 1 l. dry Et₂O and the resulting oil (110 g.) kept several days deposited 15 g. Me 2-phenylcyclopentane-1,3,4-trione-5-glyoxylate, m. 197-9° (Et₂O-EtOAc); the clarified oil dried briefly in vacuo gave 80 g. crude AcCPH:C(OH)CO₂Et (V). III (3.0 g.) in 70 ml. cold EtOH treated with excess alc.-N₂H₄, the solution warmed briefly on a steam cone, evaporated to 20 ml., cooled in ice, treated gradually with 15% HCl until pH 8, diluted with H₂O to form a homogeneous solution, and chilled and scratched gave 2.1 g. VI (R = H), m. 142-4° (aqueous EtOH). III (5 g.) and 5 g. PhNHNH₂ in 50 ml. EtOH refluxed 1 hr. gave 3.4 g. VI (R = Ph), m. 158-60° (aqueous EtOH). I (150 g.) and 150 g. II treated with dry MeONa (from 28 g. Na) in 700 ml. dry Et₂O, on the following day the mixture treated with 85 g. NCCH₂CONH₂ (VII) and 900 ml. MeOH, boiled 1 hr. to remove the Et₂O, refluxed vigorously 3 hrs., concentrated, the residue chilled, treated with 150 ml. concentrated HCl in 500 ml. cold H₂O, the mixture kept 2 days at 0°, the precipitate collected, washed with H₂O, and triturated with MeOH gave 94 g. 3-cyano-4-methyl-5-phenyl-2-pyridinal, m. 190-2° (decomposition) (MeOH); when refluxed 3 hrs. with concentrated HCl the pyridone yielded quant. III.

III (80 g.) and 41 g. VII in 1 l. MeOH treated with 60 ml. piperidine (moderate exothermic reaction), when the solution had cooled nearly to room temperature (20 min.) the solution treated with 60 ml. AcOH, and kept 12 days

at room temperature gave (the ppts. were collected periodically; the mother liquor was concentrated in volume 10-20% and kept until no more product was obtained)

8 g. VIII (R = CN), m. 294-6° (decomposition) (MeOH); attempts to esterify the nitrile with MeOH-HCl resulted in incomplete conversion to ester. III (89 g.) and 46 g. VII in 700 ml. MeOH heated to 55°, treated with 45 ml. pyridine and then with 50 ml. piperidine while swirling, the boiling solution cooled gradually to room temperature (1 hr.), kept overnight, treated with 100 ml. AcOH, boiled gently 2 hrs. on a steam bath until excess MeOH (400 ml.) was removed, and kept several days (or the ppts. periodically filtered off as above) gave 25-40 g. VIII [R = C(=NH)OMe] (IX), decomposing from 230° (MeOH). III (36 g.) and 26 g. NCCH₂CO₂Et in 200 ml. MeOH treated with 21 ml. piperidine, when the exothermic reaction subsided the solution refluxed 15 min., cooled, treated with 40 ml. AcOH, and kept 7 days gave 12.2 g. VIII (R = CO₂Et) (X), m. 230-2°

(MeOH). Repetition of the above experiment and the acidified solution seeded gave (on the same day) 9 g. X. IX (33 g.) and 900 ml. concentrated HCl refluxed 3 hrs., the boiling solution decanted from a small amount tar, and diluted with an equal volume cold H₂O gave 28.6 g. VIII (R = CO₂H) (XI), m. 269-71° (decomposition) (aqueous MeOH); the acid was also obtained by similar acid hydrolysis of VIII (R = CN) and X. Treatment of X with 50% aqueous soles. of appropriate primary amines gave the corresponding amides VIII (R = CONHR') (R' and m.p. given): Me, 316-18° (decomposition) (MeOH); Et, 249-51° (MeOH); CH₂CH₂NEt₂, 180-2° (aqueous EtOH); (CH₂)₃NEt₂, 181-2° (aqueous EtOH); CH₂CH₂Ph, 248-50° (EtOH); NH₂, above 350° (EtOH). XI (3.2 g.) refluxed 1 hr. with 30 ml. POCl₃ containing 5 g. PCl₅, concentrated in vacuo (H₂O pump) on a steam bath, the residue cooled, treated with 80 ml. EtOH, the solution concentrated, the residual oil treated with cold H₂O, extracted with Et₂O, the extract washed with aqueous K₂CO₃ and H₂O, dried, and evaporated gave crude XII (R = Cl), oil. Crude XII (R = Cl) in 10 ml. H₂O and 150 ml. EtOH containing 2 g. 10% Pd-C hydrogenated 2 hrs. at 3 atmospheric at room temperature, filtered, the filtrate evaporated, the residual gum partitioned between Et₂O and concentrated aqueous K₂CO₃, the Et₂O layer separated, dried, and evaporated gave 1.5 g. XII (R = H), oil; picrate m. 147-8.5° (EtOH). XII (R = H) (1 g.) and 6 g. IV treated with MeONa (from 1.3 g. Na) in MeOH, the solution refluxed 0.5 hr., evaporated, and the residue treated with H₂O gave the Me enol ether of Me 3-carbomethoxy-5-phenyl-6-pyridylpyruvate, m. 173-4° (MeOH); neutralization of the washed aqueous reaction solution and the extraction with Et₂O gave 100 mg. corresponding enol, m. 152-3° (MeOH), λ 223, 287, 316, 343 m μ , λ 3.26, 5.78, 5.82, 6.16 μ . Treatment of the enol and its Me ether with polyphosphoric acid (1 hr. at 100°) gave no cyclization products. Crude V (55.5 g.) and 25 g. VII in 500 ml. MeOH heated gently on a steam bath, the solution treated with 27 ml. piperidine, boiled gently 10 min., cooled, treated with 31 ml. AcOH, kept overnight, and partially evaporated gave (in several crops) 31.3 g. mixture (XIII) of XIV (R = Me and Et), m. 182-5° (MeOH). XIII treated briefly with 20 ml. Ac₂O and concentrated gave XIV (R = Me), m. 198-9° (MeOH-EtOAc). XIII treated with EtOH-EtONa and the solution acidified gave XIV (R = Et), m. 165-7° (EtOH). XIV (R = Me) and XIV (R = Et) treated 1 hr. at 100° with Ac₂O gave apparently XV, decompose from 195° (Ac₂O-EtOAc). Both XIV (R = Me) and XIV (R = Et) treated with IV in the presence of Na alkoxides under varying conditions gave chiefly unchanged compound XIII (37.5 g.) in 1400 ml. concentrated HCl refluxed 40 min. and the resulting mixture chilled gave 30.5 g. 5-phenyl-6-methyl-2-pyridone-3,4-dicarboxylic acid (XVI), m. 225-30° (decomposition); the corresponding anhydride (XVII) [obtained by heating (1.3 hrs.) 1 g. XVI in 50 ml. Ac₂O] m. 240-3° (decomposition) (EtOAc); mono-Me ester (prepared by dissolving XVI or XVII in MeOH and keeping the solution several days) decompose from 215° (MeOH-EtOAc). XVI (or XIII) (2.8 g.) in 200 ml. concentrated HCl refluxed 2.5 hrs., the solution cooled, and treated with a little H₂O gave 2.1 g. 5-phenyl-6-methyl-2-pyridone-4-carboxylic acid (XVIII), decomposing from 280° (MeOH); Me ester (prepared by refluxing 2 hrs. with MeOH/HCl), m. 183-5° (EtOAc); Et ester (by converting to the acid chloride with POCl₃ containing some PCl₅, removing the excess POCl₃, and treating the residue with EtOH), m. 154-5° (EtOH or EtOAc). XVIII (1 g.) in 150

ml. AcOH containing 2 g. 10% Pd-C hydrogenated 1.5 hrs. at 45 lb./sq. in. at 75°, filtered, and the filtrate evaporated gave quant. 5-phenyl-6-methyl-2-piperidone-4-carboxylic acid, m. 196-7° (EtOAc), sensitive to alcs. and moisture (treatment with wet MeOH gave a compound, m. 218-20°, which appeared to be partly a hydrate of corresponding amino acid or acid ester; Me ester (by refluxing 3 hrs. with saturated MeOH-HCl) m. 157-9° (EtOAc). XI (20 g.) in 65 ml. (ClOC)2 (XIX) and 30 ml. POC13 refluxed 40 min. (the solid was kept in contact with the liquid reagent), cooled, diluted with 100 ml. dry C6H6, the precipitate (24.6 g., apparently a P complex (XX) of the diacid chloride) collected, washed with C6H6, and ground up in cold H2O gave 22.3 g. crude 3-carboxy-5-phenyl-2-pyridone-6-pyruvic acid (XXI), decomposing from 190°; di-Et ester (by treating crude XX with absolute EtOH) m. 168-70° (MeOH). XVI (13.4 g.) in 40 ml. XIX and 40 ml. POC13 refluxed 45 min., cooled, and diluted with 100 ml. dry C6H6 gave 10.2 g. XXII, m. 241-4° (decomposition). XXII treated with MeOH, H2O, or aqueous acids gave poorly defined products. Crude XXI (22.6 g.) and 250 ml. concentrated H2SO4 stirred until XXI dissolved (3-4 hrs.), the solution kept 2 days at room temperature, poured over 2 kg. chopped ice with stirring, the mixture stirred or kept until the ice melted and the precipitate became easily filterable, the precipitate collected, washed with several portions H2O, and triturated with MeOH gave 15.8 g. 3-hydroxybenzo[f]q inoline-2,6-dicarboxylic acid (XXIII), m. above 360° (MeOH); XXIII appeared to be slightly solvated. Crude XXI (2 g.) cyclized as above, the H2SO4 mixture (30 ml.) poured into 15 ml. absolute EtOH, the solution heated 0.5 hr. on a steam bath and the neutral product recrystd. from EtOH gave 0.5 g. di-Et ester (XXIV) of XXIII, m. 209-11°. XXIII (1.2 g.) refluxed 0.6 hrs. with 100 ml. SOCl2, concentrated, and the residue treated with EtNH2 gave the corresponding bis(N-ethylamide), m. above 360° (EtOH and EtOAc). XXIII (5.1 g.) in 100 ml. concentrated HNO3 refluxed gently 10 min., the solution filtered while warm [1.3 g. isomeric NO2 derivative (XXV) removed], and the filtrate diluted with cold H2O gave 4.4 g. 8-NO2 derivative (XXVI) of XXIII, decomposing from 280°. XXVI (9.2 g.) in 350 ml. H2O and 9 ml. concentrated aqueous NH3 containing 5 g. 10% Pd-C hydrogenated at 45 lb./sq. in. (7 lb./sq. in. H absorbed in 20 min.) and the filtered solution treated with concentrated HCl gave 8 g. 8-NH2 derivative of XXIII, m. above 360° (reptn. from concentrated H2SO4 with H2O); N-Ac derivative m. above 350°. Similar reduction of XXV (presumably the 10-NO2 isomer) gave quant. the amino acid, m. above 360° (MeOH). XXIII (20 g.) 50 g. PC15, and 200 ml. POC13 swirled and warmed gently until the solids dissolved and evolution of HCl was finished (5 min.), the solution refluxed 4 hrs., concentrated in vacuo (H2O pump) on a steam bath, the residual crude chlorodiacid chloride (XXVII) chilled in ice, treated with 250 ml. MeOH, the mixture swirled briskly at below 45° (occasional brief immersion in an ice bath), after 5 min. kept 20-30 min. at 0°, the product collected, and washed with MeOH gave 16.5 g. 3-chlorobenzo[f]quinoline-2,6-dicarboxylic acid (XXVIII) di-Me ester (XXIX), m. 186-8° (EtOAc); the mother liquor kept several days at 0° deposited 1 g. apparently impure XXIII di-Me ester, m. 255-60°. Crude XXVII treated with EtOH as above, the crude product shaken with EtOAc and aqueous K2CO3, the EtOAc layer dried, and evaporated gave 65% XXVIII di-Et ester (XXX), m. 177-8° (EtOAc); the mother liquor kept several days at 0° deposited 20% XXIV, m. 207-9° (EtOH). Crude XXVII treated with appropriate anhydrous amines gave the following compds.: 3-dimethylamino-N,N',N',N'-

tetramethylbenzo[f]quinoline-2,6-dicarboxamide, m. 228-30° (EtOAc); 3-pyrrolidino-2,6-bispyrrolidinocarbonylbenzo[f]quinoline, m. 235-7° (EtOAc); 3-piperidino-2,6-dipiperidinocarbonylbenzo[f]quinoline, m. 196-7.5° (EtOAc); 3-ethylamino-N,N'-diethylbenzo[f]quinoline-2,6-dicarboxamide, m. 300-2° (decomposition) (EtOAc). Crude XXVII treated with excess 1:3 EtNH₂-EtOH, the solution evaporated, the residue treated with H₂O, and the product isolated with Et₂O gave 3-chloro-N,N,N',N'-tetraethylbenzo[f]quinoline-2,6-dicarboxamide, m. 179-81° (cyclohexane-EtOAc); attempts to reduce this compound with NaBH₄ in MeOH were unsuccessful. XXX (1.8 g.) in 150 ml. EtOH mixed with 2.5 g. 10% Pd-C in 80 ml. H₂O, the mixture hydrogenated 3 hrs. at 45 lb./sq. in. at room temperature, filtered, the filtrate evaporated, the oily residue dissolved in Et₂O, the solution shaken with aqueous K₂CO₃, separated, dried, evaporated, and the residue triturated with Et₂O gave 0.8 g. benzo[f]quinoline-2,6-dicarboxylic acid (XXXI) di-Et ester, m. 96-8° (MeOH). XXX (5 g.) in 100 ml. EtOH treated with NaBH₄ in small portions with stirring until there was no further exothermic effervescent reaction, the mixture treated with 5 g. addnl. NaBH₄, concentrated on a steam cone during 1 hr. to small volume, cooled, and diluted with H₂O gave 3 g. crude 1,4-dihydrobenzo[f]quinoline-2,6-dicarboxylic acid (XXXII) di-Et ester (XXXIII), m. 157-9° (EtOH, then MeOH). XXX (1.8 g.) in 80 ml. H₂O and 80 ml. EtOH containing 2.5 g. 10% Pd-C hydrogenated 1.5 hrs. at 50°, the filtered solution evaporated, and the residue treated with aqueous K₂CO₃ gave 0 g. XXXIII. Similar reduction of XXX with NaBH₄ in MeOH in lieu of EtOH gave a Me Et ester of XXXII, m. 182-5° (MeOH). XXXIX (10 g.) reduced with NaBH₄ in MeOH as above, the mixture concentrated, cooled, diluted with H₂O, and the product (4.5 g.) triturated with MeOH gave 3.7 g. XXXII di-Me ester (XXXIV), m. 215-18° (decomposition) (MeOH). Triturated XXXIV (3.0 g.) and 2 g. 10% Pd-C in 350 ml. xylene distilled 5 min. to remove traces H₂O, the residual mixture refluxed 1 hr., filtered while hot, the filtrate evaporated, and the residue triturated with a little MeOH gave 2.0 g. XXXI di-Me ester (XXXV), m. 145-7° (MeOH). Crude XXVII treated with excess PhCH₂CH₂NH₂, concentrated, the residue treated with H₂O, the gummy precipitate filtered off, and triturated with EtOAc gave crude 3-chloro-N,N'-di(β-phenylethyl)benzo[f]quinoline-2,6-dicarboxamide (XXXVI), m. 190° (decomposition). Crude XXXVI (4 g.) in MeOH treated portionwise with NaBH₄ until spontaneous reaction ceased and then with 5 g. addnl. NaBH₄, the mixture heated 0.3 hr. on a steam bath, concentrated, the residue diluted with H₂O, extracted with EtOAc-Et₂O, the extract dried and evaporated, the residual gummy solid refluxed 1 hr. in 350 ml. xylene containing 2.5 g. 10% Pd-C, the mixture filtered while hot, and the filtrate evaporated gave 0.3 g. N,N'-di(β-phenylethyl)benzo[f]quinoline-2,6-dicarboxamide, m. 217-19° (EtOAc). XXX (7.5 g.) in 300 ml. EtOH and 50 ml. H₂O containing 8 g. 10% Pd-C hydrogenated at 45 lb./sq. in. at 70° (a pressure drop of 7 lb./sq. in. occurred gradually during 5.5 hrs.), filtered, the filtrate cooled, concentrated, the residue shaken with Et₂O and aqueous K₂CO₃, the Et₂O layer separated, dried, evaporated, the residual oil (6.2 g.) taken up in 30 ml. anhydrous N₂H₄, the solution refluxed 3 hrs., cooled, diluted with 200 ml. H₂O, filtered, and the filtrate kept several days at 0° gave 4 g. hexa- or octahydrobenzo[f]quinoline-2,6-dicarboxylic acid dihydrazide hemihydrate, decomposing from 255° (EtOH). XXX (5.0

g.) treated with 40 ml. ice-cold 90% HNO₃ with stirring, the resulting solution kept at 15° by brief immersion in an ice bath during the exothermic reaction (5 min.), poured into 5 ml. ice and H₂O with stirring, the precipitate collected, washed with several portions H₂O, pressed dry, and triturated with warm EtOH gave 4.3 g.

3-chloro-7-nitrobenzo[f]quinoline-2,6-dicarboxylic acid (XXXVII) di-Et ester (XXXVIII), m. 192-4° (EtOH). XXIX (12.5 g.) nitrated with 115 ml. 90% HNO₃ as above except that the solution was allowed to stand and warmed gradually to 20° during 9 min. after the period of slightly exothermic reaction, the product isolated as above, and triturated while moist with MeOH gave 13.3 g. XXXVII di-Me ester (XXXIX), m. 229-31° (decomposition) (EtOAc). XXXV (2.0 g.) nitrated with 35 ml. 90% HNO₃ as above (the solution was swirled in an ice bath until the moderately exothermic reaction was complete), the solution kept 6 min., hydrolyzed with ice H₂O, and the product triturated with MeOH gave 1.8 g. 7-NO₂ derivative (XL) of XXXV, m. 202-4° (decomposition) (EtOAc). XXX (6.4 g.) and 2 g. 10% Pd-C in 400 ml. AcOH hydrogenated 0.5 hr. at 45 lb./sq. in. at 60-70° (when 3 mol. equivs. H were absorbed the reduction was interrupted), the mixture heated to 100°, filtered as rapidly as possible, the catalyst washed with several portions AcOH and EtOAc, the combined filtrate and washings evaporated, and the residue triturated with MeOH gave 2.4 g. 2 - carbomethoxy - 3 - chloro - 7 - aminobenzo [f] quinoline-6-carboxylic acid lactam (XLI), m. 304-6° (decomposition) (EtOAc); attempts to dechlorinate this compound were unsuccessful. XXXVIII (2.1 g.) and 3 g. 10% Pd-C in 150 ml. AcOH hydrogenated 1 hr. at 45 lb./sq. in. at 80° [absorption of H occurred in 2 stages, partly (3 moles) at room temperature and the remainder (1 mole) at the elevated temperature], the filtered solution evaporated, and the residue triturated with EtOH gave 0.4 g. 1,2-dihydro-2-carbomethoxy-3-oxo-7-aminobenzo [f] quinoline-6-carboxylic acid lactam, m. 294-6° (decomposition) (treatment with dilute aqueous NaHCO₃, then EtOH). XXXVIII (4.2 g.) and 6 g. 10% Pd-C in 400 ml. EtOH hydrogenated at 45 lb./sq. in. at room temperature (4 moles H absorbed in 15 min.), then hydrogenated at 75° (an addnl. 3.5 moles H absorbed during 3 hrs.), the filtered solution evaporated, the residue treated with cold dilute aqueous NaHCO₃, the resulting semisolid extracted with 2 l. Et₂O, the extract dried, evaporated, the residual oil (1.6 g.) treated with a little EtOH, and the resulting solid triturated with EtOH gave 0.5 g.

1,2,3,4,4a,5,6,10b-octahydro-2-carbomethoxy-7-aminobenzo[f]quinoline-6-carboxylic acid lactam, m. 232-4° (sinters at 223°) (EtOH); the compound appeared to be unstable. XL (1.8 g.) and 1 g. 10% Pd-C in 300 ml. AcOH hydrogenated 16 min. at 45 lb./sq. in. at room temperature, the filtered solution evaporated, and the crystalline residue triturated twice with MeOH gave 0.9 g. 2-carbomethoxy-7-aminobenzo[f]quinoline-6-carboxylic acid lactam (XLII), m. 304-5° (decomposition) (MeOH). MeOH-triturated XLII (0.3 g.) refluxed 0.5 hr. in 250 ml. xylene containing 0.5 g. 10% Pd-C, the mixture filtered hot, and the filtrate evaporated gave the purest sample of XLII, m. 305-6° (MeOH). XLI (1.0 g.) in 100 ml. MeOH treated with NaBH₄ in small portions, treated with more NaBH₄, the mixture heated 15 min. on a steam bath, cooled, and diluted with H₂O gave 0.9 g. XLIII, m. 257-9° (decomposition). XLV (0.5 g.) and 1 g. 10% Pd-C in 280 ml. xylene refluxed 1.5 hrs. and the filtered solution cooled gave 0.1 g. XLII. XLII (0.3 g.) and 100 ml. concentrated HCl refluxed 0.5 hr. gave 7-aminobenzo[f]quinoline-2,6-dicarboxylic acid lactam, m. above 360° (MeOH). Infrared data were given for the products.

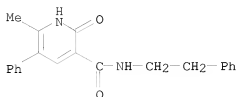
IT 95003-39-7P, Nicotinamide,
 2-hydroxy-6-methyl-N-phenethyl-5-phenyl-
 RL: PREP (Preparation)

10/537,719

(preparation of)

RN 95003-39-7 CAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-6-methyl-2-oxo-5-phenyl-N-(2-phenylethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

=>